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# ਬਾਰੂਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਸੰਬੰਧੀ

ਪੰਜਾਬ ਸਰਕਾਰ ਦੀਆਂ ਹਦਾਇਤਾਂ ਦੀ ਲੋਅ ਵਿੱਚ ਦਾਖਲਾ ਸਾਲ 2009 ਤੋਂ ਨੌਵੀਂ ਅਤੇ ਗਿਆਰਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਲਾਗੂ ਕੀਤੀ ਗਈ। ਇਸ ਪ੍ਰਕ੍ਰਿਆ ਨੂੰ ਨਿਰੰਤਰ ਰੱਖਦੇ ਹੋਏ, ਰਾਜ ਦੇ ਸਮੂਹ ਸਕੂਲਾਂ ਵਿੱਚ ਅਕਾਦਮਿਕ ਸਾਲ 2010-11 ਤੋਂ ਦਸਵੀਂ ਅਤੇ ਬਾਰਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਲਾਗੂ ਕੀਤੀ ਗਈ। ਬਾਰੂਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਸੰਬੰਧੀ ਅਹਿਮ ਨੁਕਤੇ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹਨ।

- (ੳ) 1. ਬਾਰੂਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਅਕਾਦਮਿਕ ਸਾਲ 2010-11 ਤੋਂ ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਲਾਗੂ ਕੀਤੀ ਗਈ ਹੈ।
2. ਪਹਿਲੇ ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਦਾ ਸਿਲੇਬਸ, ਕੁੱਲ ਸਿਲੇਬਸ ਦਾ ਕ੍ਰਮਵਾਰ 40% ਅਤੇ 60% ਹੋਵੇਗਾ।
3. ਪਹਿਲੇ ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਦੇ ਕੁੱਲ ਅੰਕ 1000 ਹੋਣਗੇ। ਪਹਿਲੇ ਸਮੈਸਟਰ ਦੇ ਕੁੱਲ ਅੰਕ 400 (40%) ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਦੇ ਕੁੱਲ ਅੰਕ 600 (60%) ਹੋਣਗੇ।
4. ਪਹਿਲੇ ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਦੇ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਅਬਜੈਕਟਿਵ (ਸੰਖੇਪਾਤਮਕ) ਹੋਣ ਦੇ ਨਾਲ ਛੋਟੇ ਉਤਰਾਂ ਵਾਲੇ/ਸਬਜੈਕਟਿਵ (ਵਿਆਖਿਆਤਮਕ) ਵੀ ਹੋਣਗੇ। ਪਹਿਲੇ ਸਮੈਸਟਰ ਦਾ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਪਹਿਲੇ ਸਮੈਸਟਰ ਦੇ ਸਲੇਬਸ ਤੇ ਅਧਾਰਿਤ ਹੋਵੇਗਾ ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਦਾ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਕੇਵਲ ਦੂਜੇ ਸਮੈਸਟਰ ਦੇ ਸਲੇਬਸ ਤੇ ਅਧਾਰਿਤ ਹੋਵੇਗਾ।
5. ਜਿਨ੍ਹਾਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ ਦੇ ਨਾਲ-ਨਾਲ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਵੀ ਹੈ, ਉਹਨਾਂ ਵਿਸ਼ਿਆਂ ਦਾ ਪ੍ਰਯੋਗੀ ਇਮਤਿਹਾਨ ਦੂਜੇ ਸਮੈਸਟਰ ਵਿੱਚ ਲਿਆ ਜਾਵੇਗਾ। ਕੰਪਿਊਟਰ ਸਾਇੰਸ, ਸੰਗੀਤ (ਤਬਲਾ, ਵਾਦਨ, ਗਾਇਨ) ਗੁਰਮੱਤ ਸੰਗੀਤ, ਡਾਂਸ, ਸਰੀਰਕ ਸਿੱਖਿਆ ਤੇ ਖੇਡਾਂ, ਹੋਮ ਸਾਇੰਸ, ਐਲੀਮੈਂਟਸ ਆਫ਼ ਇਲੈਕਟ੍ਰੋਨੀਕ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਦੋਵੇਂ ਸਮੈਸਟਰਾਂ ਵਿੱਚ ਲਈ ਜਾਵੇਗੀ।
6. ਜਿਨ੍ਹਾਂ ਵਿਸ਼ਿਆਂ (ਮੌਡਲਿੰਗ ਐਂਡ ਸਕਲਪਚਰ, ਕਮਰਸ਼ੀਅਲ ਆਰਟਸ ਅਤੇ ਡਰਾਇੰਗ ਐਂਡ ਪੇਂਟਿੰਗ) ਵਿੱਚ ਲਿਖਤੀ (ਥਿਊਰੀ) ਪੇਪਰ ਨਹੀਂ ਹੈ, ਸਿਰਫ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਹੀ ਹੈ, ਉਹਨਾਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਪਹਿਲੇ ਸਮੈਸਟਰ ਵਿੱਚ 40% ਸਿਲੇਬਸ ਵਿੱਚੋਂ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਲਈ ਜਾਵੇਗੀ ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਵਿੱਚ ਵੀ 60% ਸਿਲੇਬਸ ਵਿੱਚੋਂ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਲਈ ਜਾਵੇਗੀ।
7. ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਅਧੀਨ ਪਹਿਲੇ ਸਮੈਸਟਰ ਦਾ ਸਮਾਂ 1 ਅਪ੍ਰੈਲ ਤੋਂ 30 ਸਤੰਬਰ ਤੱਕ ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਦਾ ਸਮਾਂ 1 ਅਕਤੂਬਰ ਤੋਂ 31 ਮਾਰਚ ਤੱਕ ਹੋਵੇਗਾ। ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਅਧੀਨ ਛੁੱਟੀਆਂ ਦੀ ਸਮਾਂ ਸਾਰਣੀ ਸਰਕਾਰ ਵੱਲੋਂ ਨਿਰਧਾਰਿਤ ਕੀਤੀ ਜਾਵੇਗੀ।
8. ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਅਧੀਨ ਵਿਦਿਆਰਥੀ ਰੈਗੂਲਰ ਅਤੇ ਓਪਨ ਸਕੂਲ ਸਿਸਟਮ ਰਾਹੀਂ ਇਮਤਿਹਾਨ ਦੇਣਗੇ।
9. ਪਹਿਲੇ ਸਮੈਸਟਰ ਦੀ ਪ੍ਰੀਖਿਆ ਦਾ ਸਮਾਂ  $2\frac{1}{2}$  ਘੰਟੇ ਅਤੇ ਦੂਜੇ ਸਮੈਸਟਰ ਦੀ ਪ੍ਰੀਖਿਆ ਦਾ ਸਮਾਂ 3 ਘੰਟੇ ਦਾ ਹੋਵੇਗਾ। ਵਿਲਖਣ ਸਮਰੱਥਾ ਵਾਲੇ ਪ੍ਰੀਖਿਆਰਥੀ (Differently able students) ਲਈ ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ ਵਿੱਚ ਹਰੇਕ ਘੰਟੇ ਲਈ ਵਾਧੂ 20 ਮਿੰਟ ਦਿੱਤੇ ਜਾਂਦੇ ਹਨ। 3 ਘੰਟੇ ਦੀ ਪ੍ਰੀਖਿਆ ਲਈ ਵਾਧੂ ਇਕ ਘੰਟਾ ਹੋਵੇਗਾ।
10. ਵਿਸ਼ਿਆਂ ਦੀ ਵਾਧੂ ਵਿਸ਼ੇ ਅਤੇ ਕਾਰਜਗੁਜਾਰੀ ਵਧਾਉਣ ਲਈ ਸਮੈਸਟਰ I ਅਤੇ ਸਮੈਸਟਰ II ਪ੍ਰੀਖਿਆ ਦੇ ਸਿਲੇਬਸ ਦੇ ਅਨੁਸਾਰ ਇਕੋ ਹੀ ਸਮੈਸਟਰ ਦੌਰਾਨ ਦੋਵੇਂ ਸਮੈਸਟਰ ਦੀ ਲਈ ਜਾਣ ਵਾਲੀ ਪ੍ਰੀਖਿਆ ਸਵੇਰੇ ਤੇ ਸ਼ਾਮ ਦੇ ਸੈਸ਼ਨਾਂ ਵਿੱਚ ਲਈ ਜਾਵੇਗੀ।

**(ਅ) ਬਾਰਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਸੀ. ਸੀ. ਈ. /ਇਨਟਰਨਲ ਅਸੈਸਮੈਂਟ ਬਾਰੇ ਅਹਿਮ ਨੁਕਤੇ :-**

1. 12ਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ 30% ਸੀ. ਸੀ. ਈ. /ਇਨਟਰਨਲ ਅਸੈਸਮੈਂਟ ਗੁਣਾਤਮਿਕ ਢੰਗ ਨਾਲ ਦਿੱਤੀ ਜਾਵੇਗੀ।
2. ਸੀ. ਸੀ. ਈ. ਸਿਰਫ ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ ਵਿੱਚ ਦਿੱਤੀ ਜਾਵੇਗੀ ਅਤੇ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਵਿੱਚ ਕੋਈ ਸੀ. ਸੀ. ਈ. ਨਹੀਂ ਦਿੱਤੀ ਜਾਵੇਗੀ। ਇਸ ਅਧੀਨ ਮੌਡਲਿੰਗ ਐਂਡ ਸਕਲਪਚਰ, ਕਮਰਸ਼ੀਅਲ ਆਰਟਸ ਅਤੇ ਡਰਾਇੰਗ ਐਂਡ ਪੇਟਿੰਗ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਸੀ. ਸੀ. ਈ. ਨਹੀਂ ਦਿੱਤੀ ਜਾਵੇਗੀ ਕਿਉਂਕਿ ਇਹਨਾਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ ਨਹੀਂ ਹੈ।
3. ਸੀ.ਸੀ.ਈ. ਦੇ ਮੁਲਾਂਕਣ ਲਈ ਸਕੂਲ ਪੱਧਰ ਤੇ ਇੱਕ ਕਮੇਟੀ ਗਠਿਤ ਕੀਤੀ ਜਾਵੇਗੀ ਜਿਸ ਦਾ ਇੰਚਾਰਜ ਸਕੂਲ ਮੁੱਖੀ ਹੋਵੇਗਾ। ਸ਼੍ਰੇਣੀ ਇੰਚਾਰਜ ਅਤੇ ਵਿਸ਼ਾ ਅਧਿਆਪਕ ਉਸ ਦੇ ਮੈਂਬਰ ਹੋਣਗੇ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੀ. ਸੀ. ਈ. ਸਬੰਧੀ ਅੰਕ ਦੇਣ ਦੀ ਨਿਰੋਲ ਜ਼ਿੰਮੇਵਾਰੀ ਉਪਰੋਕਤ ਕਮੇਟੀ ਦੀ ਹੋਵੇਗੀ।
4. ਸੀ.ਸੀ.ਈ. ਸਬੰਧੀ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਦਿੱਤੇ ਅੰਕਾਂ ਦਾ ਰਿਕਾਰਡ ਸਕੂਲ ਵੱਲੋਂ ਹਰੇਕ ਸਮੈਸਟਰ ਖਤਮ ਹੋਣ ਤੋਂ ਇੱਕ ਸਾਲ ਤੱਕ ਸੁਰੱਖਿਅਤ ਰੱਖਿਆ ਜਾਵੇਗਾ। ਬੋਰਡ/ਸਿੱਖਿਆ ਵਿਭਾਗ ਵੱਲੋਂ ਕਿਸੇ ਸਮੇਂ ਵੀ ਇਸ ਦਾ ਨਿਰੀਖਣ ਕੀਤਾ ਜਾਵੇਗਾ।
5. ਪ੍ਰੀ-ਸਮੈਸਟਰ ਪ੍ਰੀਖਿਆ ਦਾ ਨਤੀਜਾ ਪ੍ਰੀਖਿਆ ਖਤਮ ਹੋਣ ਤੋਂ 3 ਦਿਨ ਦੇ ਅੰਦਰ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਦਿੱਤਾ ਜਾਵੇ ਅਤੇ ਅਧਿਆਪਕਾਂ ਵੱਲੋਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੇਸ਼ ਆ ਰਹੀਆਂ ਵਿਸ਼ਾਵਾਰ ਅਕਾਦਮਿਕ ਔਕੜਾਂ ਦਾ ਹੱਲ ਕੀਤਾ ਜਾਵੇ।

**(ੲ) ਬਾਰਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਲਾਜ਼ਮੀ ਵਿਸ਼ੇ ਪੜ੍ਹਨ ਬਾਰੇ ਅਤੇ ਪਾਸ ਫਾਰਮੂਲੇ ਬਾਰੇ ਫੈਸਲੇ :-**

1. ਬਾਰਵੀਂ ਸ਼੍ਰੇਣੀ ਦੀ ਪ੍ਰੀਖਿਆ ਬੋਰਡ ਦੁਆਰਾ ਲਈ ਜਾਵੇਗੀ। ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਅਤੇ ਵਾਤਾਵਰਨ ਸਿੱਖਿਆ ਵਿਸ਼ਿਆਂ ਦੀ ਪ੍ਰੀਖਿਆ ਸਕੂਲ ਪੱਧਰ ਤੇ ਲਈ ਜਾਵੇਗੀ।
2. ਬਾਰਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਅਧੀਨ ਪਾਸ ਹੋਣ ਲਈ ਦੋਨਾਂ ਸਮੈਸਟਰਾਂ ਵਿੱਚ ਹਰ ਵਿਸ਼ੇ ਵਿੱਚ ਲਿਖਤੀ ਅਤੇ ਪ੍ਰਯੋਗੀ ਵਿੱਚੋਂ ਅਲੱਗ ਅਲੱਗ ਤੌਰ ਤੇ 33% ਅੰਕ ਲੈ ਕੇ ਅਤੇ ਕੁੱਲ ਮਿਲਾ ਕੇ ਘੱਟੋ ਘੱਟ 33% ਅੰਕ ਲੈ ਕੇ ਪਾਸ ਹੋਣਾ ਜ਼ਰੂਰੀ ਹੋਵੇਗਾ।
3. ਸੀ.ਸੀ.ਈ. ਵਿੱਚ ਵੱਖਰੇ ਤੌਰ ਤੇ ਪਾਸ ਹੋਣਾ ਜ਼ਰੂਰੀ ਨਹੀਂ ਹੈ ਅਤੇ ਇਸ ਦੇ ਅੰਕ ਨਤੀਜਾ ਕਾਰਡ ਵਿੱਚ ਸਿਰਫ ਦਰਸਾਏ ਜਾਣਗੇ।
4. ਲਿਖਤੀ ਅਤੇ ਪ੍ਰਯੋਗੀ (ਜੇਕਰ ਹੋਵੇ) ਪ੍ਰੀਖਿਆ ਵਿੱਚ ਵੱਖਰੇ ਵੱਖਰੇ ਤੌਰ ਤੇ ਪਾਸ ਹੋਣ ਤੇ ਹੀ ਸੀ.ਸੀ.ਈ. ਦੇ ਅੰਕ ਕੁੱਲ ਅੰਕਾਂ ਵਿੱਚ ਜੋੜੇ ਜਾਣਗੇ।
5. ਹਿਊਮੈਨਟੀਜ਼, ਸਾਇੰਸ ਅਤੇ ਖੇਤੀਬਾੜੀ ਗਰੁੱਪਾਂ ਅਧੀਨ ਪ੍ਰੀਖਿਆ ਦੇਣ ਵਾਲੇ ਉਸ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਪਾਸ ਸਮਝਿਆ ਜਾਵੇਗਾ ਜੇਕਰ ਉਹ ਸਮੈਸਟਰਵਾਰ ਦੋ ਲਾਜ਼ਮੀ ਵਿਸ਼ੇ (ਜਨਰਲ ਅੰਗਰੇਜ਼ੀ, ਜਨਰਲ ਪੰਜਾਬੀ/ਪੰਜਾਬ

ਹਿਸਟਰੀ ਅਤੇ ਕਲਚਰ), ਤਿੰਨ ਚੋਣਵੇਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਘੱਟੋ ਘੱਟ 33% ਅੰਕ ਪ੍ਰਾਪਤ ਕਰਨ ਤੋਂ ਇਲਾਵਾ ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਅਤੇ ਵਾਤਾਵਰਣ ਸਿੱਖਿਆ ਦੇ ਵਿਸ਼ਿਆਂ (ਜਿਨ੍ਹਾਂ ਦੀ ਪ੍ਰੀਖਿਆ ਸਕੂਲ ਪੱਧਰ ਤੇ ਹੀ ਲਈ ਜਾਣੀ ਹੈ) ਵਿੱਚੋਂ ਵੀ ਘੱਟੋ ਘੱਟ 'ਡੀ' ਗਰੇਡ ਹਾਸਲ ਕਰਦਾ ਹੈ।

6. ਕਾਮਰਸ ਗਰੁੱਪ, ਟੈਕਨੀਕਲ ਗਰੁੱਪ ਅਤੇ ਵੋਕੇਸ਼ਨਲ ਸਟਰੀਮ ਦੇ ਗਰੁੱਪਾਂ ਅਧੀਨ ਪ੍ਰੀਖਿਆ ਦੇਣ ਵਾਲੇ ਉਸ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਪਾਸ ਸਮਝਿਆ ਜਾਵੇਗਾ ਜੇਕਰ ਉਹ ਸਮੈਸਟਰਵਾਰ ਦੇ ਲਾਜ਼ਮੀ ਵਿਸ਼ੇ (ਜਨਰਲ ਅੰਗਰੇਜ਼ੀ, ਜਨਰਲ ਪੰਜਾਬੀ/ਪੰਜਾਬ ਹਿਸਟਰੀ ਅਤੇ ਕਲਚਰ), ਚਾਰ ਚੋਣਵੇਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਘੱਟੋ ਘੱਟ 33% ਅੰਕ ਪ੍ਰਾਪਤ ਕਰਨ ਤੋਂ ਇਲਾਵਾ ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਅਤੇ ਵਾਤਾਵਰਣ ਸਿੱਖਿਆ ਦੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ (ਜਿਨ੍ਹਾਂ ਦੀ ਪ੍ਰੀਖਿਆ ਸਕੂਲ ਪੱਧਰ ਤੇ ਹੀ ਲਈ ਜਾਣੀ ਹੈ) ਵਿੱਚੋਂ ਵੀ ਘੱਟੋ ਘੱਟ 'ਡੀ' ਗਰੇਡ ਹਾਸਲ ਕਰਦਾ ਹੈ। ਵੋਕੇਸ਼ਨਲ ਗਰੁੱਪ ਦੇ ਜਨਰਲ ਫਾਉਂਡੇਸ਼ਨ ਕੋਰਸ ਵਿਸ਼ੇ ਤੇ ਵੀ ਅਕਾਦਮਿਕ ਸਟਰੀਮ ਵਾਲੀ ਗਰੇਡਿੰਗ ਪ੍ਰਣਾਲੀ ਲਾਗੂ ਹੋਵੇਗੀ।
7. ਵਾਤਾਵਰਣ ਸਿੱਖਿਆ ਅਤੇ ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਹੇਠ ਦਰਸਾਈ ਗਈ ਗਰੇਡਿੰਗ ਅਨੁਸਾਰ ਗਰੇਡ ਦਿੱਤੇ ਜਾਣਗੇ। ਸਕੂਲਾਂ ਵੱਲੋਂ ਇਹਨਾਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀਆਂ ਵੱਲੋਂ ਪ੍ਰਾਪਤ ਗਰੇਡ ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ ਨੂੰ ਭੇਜੇ ਜਾਣਗੇ। ਜੇ ਵੀ ਗਰੇਡਿੰਗ ਸਕੂਲਾਂ ਤੋਂ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ ਉਹ ਸਮੈਸਟਰਵਾਰ ਨਤੀਜਾ ਸ਼ੀਟ, ਨਤੀਜਾ ਗਜ਼ਟ ਅਤੇ ਨਤੀਜਾ ਕਾਰਡ ਕਮ-ਸਰਟੀਫਿਕੇਟ ਵਿੱਚ ਜਿਉਂ ਦੀ ਤਿਉਂ ਹੀ ਦਰਸਾਈ ਜਾਵੇਗੀ। ਗਰੇਡਿੰਗ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਕੀਤੀ ਜਾਵੇਗੀ।
8. ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ ਵੱਲੋਂ 12ਵੀਂ ਸ਼੍ਰੇਣੀ ਦੀ ਪ੍ਰੀਖਿਆ ਦੇ ਹਰ ਇੱਕ ਪ੍ਰੀਖਿਆਰਥੀ ਦੇ ਨਤੀਜਾ ਕਾਰਡ ਤੇ ਹਰ ਇੱਕ ਵਿਸ਼ੇ ਵਿੱਚੋਂ ਪ੍ਰਾਪਤ ਅੰਕਾਂ ਸਮੇਤ ਕੁੱਲ ਅੰਕਾਂ ਦੇ ਨਾਲ ਨਾਲ ਫੈਸਲਾ ਨੰ: 7 ਵਿੱਚ ਦਰਸਾਏ ਅਨੁਸਾਰ ਗੇਮਡ ਵੀ ਦਰਸਾਏ ਜਾਣਗੇ। ਇਹ ਗਰੇਡਿੰਗ ਪ੍ਰੀਖਿਆਰਥੀ ਦੇ ਲਿਖਤੀ ਪੇਪਰ ਵਿੱਚੋਂ ਪ੍ਰਾਪਤ ਅੰਕ, ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ (ਜਿਸ ਵਿਸ਼ੇ ਵਿੱਚ ਹੋਵੇ) ਵਿੱਚੋਂ ਪ੍ਰਾਪਤ ਅੰਕ ਅਤੇ ਇਨਟਰਨਲ ਅਸੈਸਮੈਂਟ ਵਿੱਚੋਂ ਪ੍ਰਾਪਤ ਅੰਕਾਂ ਨੂੰ ਜੋੜ ਕੇ ਦਿੱਤੀ ਜਾਵੇਗੀ। ਇਸੇ ਤਰ੍ਹਾਂ ਸਕੂਲ ਪੱਧਰ ਤੇ ਲਈ ਪ੍ਰੀਖਿਆ ਦੇ ਹਰ ਇੱਕ ਪ੍ਰੀਖਿਆਰਥੀ ਦੇ ਨਤੀਜਾ ਕਾਰਡ ਤੇ ਹਰ ਇੱਕ ਵਿਸ਼ੇ ਵਿੱਚ ਪ੍ਰਾਪਤ ਗ੍ਰੇਡ ਵੀ ਦਰਸਾਏ ਜਾਣਗੇ।

ਦੋਵੇਂ ਸਮੈਸਟਰਾਂ ਵਿੱਚੋਂ ਗਰੇਡਿੰਗ ਵਾਲੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਵੱਖਰੇ ਗਰੇਡ ਹੋਣ ਦੀ ਸੂਰਤ ਵਿੱਚ ਦੋਵਾਂ ਵਿੱਚੋਂ ਵੱਧੀਆ (Better of two) ਨੂੰ ਹੀ Commulative ਨਤੀਜੇ ਵਿੱਚ ਵਿਖਾਇਆ ਜਾਵੇ।

9. ਕੰਪਾਰਟਮੈਂਟ ਪ੍ਰੀਖਿਆਰਥੀਆਂ ਦੇ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਵਿੱਚ ਪਾਸ ਹੋਣ ਤੇ ਸਬੰਧਤ ਸਮੈਸਟਰ ਦੇ ਪੁਰਾਣੇ ਅੰਕ ਹੀ ਚੁੱਕੇ ਜਾਣਗੇ। ਜੇਕਰ ਕੋਈ ਪ੍ਰੀਖਿਆਰਥੀ ਨਵੀਂ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਦੇਣੀ ਚਾਹੁੰਦਾ ਹੋਵੇ ਤਾਂ ਉਸਨੂੰ ਆਪਣੇ ਦਾਖਲਾ ਫਾਰਮ ਵਿੱਚ ਨਵੀਂ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਦੇਣ ਬਾਰੇ ਜਿਕਰ ਕਰਨਾ ਜ਼ਰੂਰੀ ਹੋਵੇਗਾ।

10. ਪੂਰੇ ਵਿਸ਼ਿਆਂ ਵਾਲੇ ਪ੍ਰੀਖਿਆਰਥੀ ਜੋ ਚੋਣਵੇਂ ਵਿਸ਼ਿਆਂ ਨਾਲ ਵਾਧੂ ਵਿਸ਼ੇ ਦੀ ਪ੍ਰੀਖਿਆ ਦਿੰਦੇ ਹਨ ਉਹਨਾਂ ਦਾ ਇਹ ਵਾਧੂ ਵਿਸ਼ਾ ਕੇਵਲ ਵਾਧੂ ਵਿਸ਼ਾ ਹੀ ਮੰਨਿਆ ਜਾਵੇਗਾ। ਜੇਕਰ ਪ੍ਰੀਖਿਆਰਥੀ ਇਸ ਵਿਸ਼ੇ ਵਿੱਚੋਂ ਪਾਸ ਹੈ ਤਾਂ ਇਸਦੇ ਅੰਕ ਅਤੇ ਵਿਸ਼ਾ ਵੱਖਰੇ ਤੌਰ ਤੇ ਸਰਟੀਫਿਕੇਟ ਵਿੱਚ ਦਰਸਾਏ ਜਾਣਗੇ।
11. ਪੂਰੇ ਵਿਸ਼ਿਆਂ ਦੀ ਪ੍ਰੀਖਿਆ ਦੇਣ ਵਾਲੇ ਪ੍ਰੀਖਿਆਰਥੀ ਲਈ ਸਮੈਸਟਰਵਾਰ ਗਰੇਸ ਦੇ ਵੱਧ ਤੋਂ ਵੱਧ 1% ਅੰਕ ਹਨ ਅਤੇ ਇਹ ਕਿਸੇ ਇਕ ਜਾਂ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਵਿੱਚ ਨਤੀਜਾ ਪਾਸ/ਕੰਪਾਰਟਮੈਂਟ ਬਨਾਉਣ ਲਈ ਪੂਰੇ ਜਾਂ ਵੰਡ ਕੇ ਵੀ ਦਿੱਤੇ ਜਾ ਸਕਦੇ ਹਨ।
12. ਕੰਪਾਰਟਮੈਂਟ ਕੈਟਾਗਰੀ ਅਧੀਨ ਪ੍ਰੀਖਿਆ ਦੇਣ ਵਾਲੇ ਪ੍ਰੀਖਿਆਰਥੀ ਵੀ ਸਮੈਸਟਰਵਾਰ ਗਰੇਸ ਅੰਕ ਲੈਣ ਦੇ ਯੋਗ ਹਨ। ਇਹ ਗਰੇਸ ਅੰਕ ਉਸ ਵਿਸ਼ੇ ਲਈ ਕੁੱਲ ਅੰਕਾਂ ਦਾ 1% ਹੋਵੇਗਾ, ਜਿਸ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਨੇ ਪ੍ਰੀਖਿਆ ਦਿੱਤੀ ਹੈ।
13. ਜੋ ਪ੍ਰੀਖਿਆਰਥੀ ਇਹ ਪ੍ਰੀਖਿਆ ਪਾਸ ਕਰਨ ਉਪਰੰਤ ਵਾਧੂ ਵਿਸ਼ੇ ਕੈਟਾਗਰੀ ਅਧੀਨ ਵਾਧੂ ਵਿਸ਼ਾ/ਵਿਸ਼ਿਆਂ ਦੀ ਪ੍ਰੀਖਿਆ ਦਿੰਦਾ ਹੈ, ਉਸ ਨੂੰ ਵੀ ਇਹ ਵਿਸ਼ਾ/ਵਿਸ਼ੇ ਪਾਸ ਕਰਨ ਲਈ ਦਿੱਤੇ ਗਏ ਵਿਸ਼ਾ/ਵਿਸ਼ਿਆਂ ਦੇ ਕੁੱਲ ਅੰਕਾਂ ਦਾ 1% ਗਰੇਸ ਅੰਕ ਸਮੈਸਟਰਵਾਰ ਦਿੱਤੇ ਜਾਣਗੇ।
14. 45%, 50% ਅਤੇ 60% ਅੰਕ ਬਨਾਉਣ ਲਈ ਵੀ 1% ਅੰਕਾਂ ਤੱਕ ਦੀ ਗਰੇਸ ਦਿੱਤੀ ਜਾ ਸਕਦੀ ਹੈ ਬਸ਼ਰਤੇ ਕਿ ਪ੍ਰੀਖਿਆਰਥੀ ਨੇ ਪਹਿਲਾਂ ਪਾਸ ਹੋਣ ਲਈ ਕੋਈ ਗਰੇਸ ਨਾ ਲਈ ਹੋਵੇ।
15. ਜਿਹੜਾ ਪ੍ਰੀਖਿਆਰਥੀ ਅਕਾਦਮਿਕ ਸਾਲ ਦੌਰਾਨ ਘੱਟੋ ਘੱਟ ਕਿਸੇ ਵੀ ਇਕ ਸਮੈਸਟਰ ਵਿੱਚ ਲਾਜ਼ਮੀ ਜਾਂ ਦੂਸਰੇ ਚੋਣਵੇਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਵਿੱਚ ਫੇਲ੍ਹ ਹੈ ਉਹ ਕੰਪਾਰਟਮੈਂਟ ਲਈ ਯੋਗ ਹੈ। ਉਸ ਨੂੰ ਸਮੈਸਟਰ ਦੀ ਪ੍ਰੀਖਿਆ ਪਾਸ ਕਰਨ ਲਈ ਲਗਾਤਾਰ ਅਗਲੇ ਆਉਣ ਵਾਲੇ ਸਮੈਸਟਰਾਂ ਵਿੱਚ ਦੋ ਮੌਕੇ ਦਿੱਤੇ ਜਾਣਗੇ। ਵਾਧੂ ਵਿਸ਼ੇ ਵਿੱਚ ਕੰਪਾਰਟਮੈਂਟ ਨਹੀਂ ਦਿੱਤੀ ਜਾਵੇਗੀ। ਇਹ ਹੀ ਸ਼ਰਤ ਦੂਜੇ ਸਮੈਸਟਰ ਦੇ ਪ੍ਰੀਖਿਆਰਥੀਆਂ ਤੇ ਵੀ ਲਾਗੂ ਹੋਵੇਗੀ।
16. ਪਹਿਲੇ ਸਮੈਸਟਰ ਵਿੱਚ ਅਸਫਲ ਹੋਣ ਜਾਂ ਕੰਪਾਰਟਮੈਂਟ ਆਉਣ ਤੇ ਉਮੀਦਵਾਰ ਦੂਸਰੇ ਸਮੈਸਟਰ ਦੀ ਪ੍ਰੀਖਿਆ ਦੇ ਨਾਲ-ਨਾਲ ਪਹਿਲੇ ਸਮੈਸਟਰ ਦੀ ਕ੍ਰਮਵਾਰ ਪੂਰੇ ਵਿਸ਼ਿਆਂ ਜਾਂ ਕੰਪਾਰਟਮੈਂਟ ਵਿਸ਼ੇ ਦੀ ਪ੍ਰੀਖਿਆ ਵੀ ਦੇਵੇਗਾ। ਜੇਕਰ ਉਮੀਦਵਾਰ ਪਹਿਲੇ ਸਮੈਸਟਰ ਅਤੇ ਦੂਸਰੇ ਸਮੈਸਟਰ ਵਿੱਚੋਂ ਫੇਲ੍ਹ ਹੋ ਜਾਂਦਾ ਹੈ ਤਾਂ ਉਸਦਾ ਨਤੀਜਾ ਫੇਲ੍ਹ ਘੋਸ਼ਿਤ ਕੀਤਾ ਜਾਵੇਗਾ।
17. ਜਿਹਨਾਂ ਪ੍ਰੀਖਿਆਰਥੀਆਂ ਦੇ ਨਤੀਜੇ ਕਿਸੇ ਵੀ ਸਮੈਸਟਰ ਦੌਰਾਨ ਕੰਪਾਰਟਮੈਂਟ ਬਣ ਸਕਦੇ ਹਨ ਅਤੇ ਇਸ ਕੰਪਾਰਟਮੈਂਟ ਵਿਸ਼ੇ ਦੇ ਅੰਕ 20% ਤੋਂ ਘੱਟ ਹਨ, ਉਹਨਾਂ ਨੂੰ ਜੇਕਰ ਗਰੇਸ ਦੇ ਅੰਕ ਬਚਦੇ ਹਨ ਤਾਂ ਇਹ ਬਚਦੇ ਅੰਕ ਦੇ ਕੇ 20% ਬਣਾ ਦਿੱਤੇ ਜਾਣਗੇ।

18. ਜੋ ਪ੍ਰੀਖਿਆਰਥੀ ਕਾਰਗੁਜ਼ਾਰੀ ਵਧਾਉਣ ਲਈ ਪ੍ਰੀਖਿਆ ਦੇ ਰਹੇ ਹਨ ਉਹਨਾ ਦਾ ਨਤੀਜਾ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਘੋਸ਼ਿਤ ਕੀਤਾ ਜਾਵੇਗਾ:
- (ੳ) ਇਸ ਕੈਟਾਗਰੀ ਅਧੀਨ ਅਪੀਅਰ ਹੋਣ ਵਾਲੇ ਪ੍ਰੀਖਿਆਰਥੀ ਦੇ ਪ੍ਰਯੋਗੀ ਵਿਸ਼ਿਆਂ ਦੇ ਸਬੰਧਿਤ ਸਮੈਸਟਰ /ਸਮੈਸਟਰਾਂ ਦੇ ਪੁਰਾਣੇ ਅੰਕ ਹੀ ਚੁੱਕੇ ਜਾਣਗੇ। ਜੇਕਰ ਕਿਸੇ ਪ੍ਰੀਖਿਆਰਥੀ ਨੇ ਨਵੀਂ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਦੇਣੀ ਹੋਵੇਗੀ ਤਾਂ ਉਸ ਨੂੰ ਆਪਣੇ ਦਾਖਲਾ ਫਾਰਮ ਵਿੱਚ ਨਵੀਂ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ ਦੇਣ ਬਾਰੇ ਜਿਕਰ ਕਰਨਾ ਪਵੇਗਾ।
- (ਅ) ਇਸ ਬੋਰਡ ਤੋਂ ਬਾਰਵੀਂ ਪ੍ਰੀਖਿਆ ਪਾਸ ਕਰਨ ਵਾਲਾ ਪ੍ਰੀਖਿਆਰਥੀ ਆਪਣੀ ਕਾਰਗੁਜ਼ਾਰੀ ਵਧਾਉਣ ਲਈ ਇੱਕ ਜਾਂ ਵੱਧ ਵਿਸ਼ਿਆਂ ਦੀ ਮੁੜ ਪ੍ਰੀਖਿਆ ਦੇ ਸਕਦਾ ਹੈ। ਅਜਿਹੇ ਪ੍ਰੀਖਿਆਰਥੀ ਦਾ ਨਤੀਜਾ ਤਾਂ ਹੀ ਘੋਸ਼ਿਤ ਕੀਤਾ ਜਾਵੇਗਾ ਜੇਕਰ ਉਸਨੇ ਸਬੰਧਿਤ ਵਿਸ਼ਾ/ਵਿਸ਼ਿਆਂ ਦੀ ਕਾਰਗੁਜ਼ਾਰੀ ਵਿੱਚ ਘੱਟੋ ਘੱਟ 5% ਅੰਕਾਂ ਦਾ ਸੁਧਾਰ ਕਰ ਲਿਆ ਹੋਵੇ।
- (ੲ) ਜੋ ਪ੍ਰੀਖਿਆਰਥੀ ਉਪਰੋਕਤ 'ਅ' ਅਨੁਸਾਰ ਪ੍ਰੀਖਿਆ ਦਿੰਦਾ ਹੈ, ਉਹ ਅਜਿਹਾ ਕੇਵਲ ਅਗਲੇ ਦੋ ਸਾਲਾਂ ਦੌਰਾਨ ਲਗਾਤਾਰ 2 ਮੌਕੇ ਲੈ ਕੇ ਕਰ ਸਕਦਾ ਹੈ, ਬਸ਼ਰਤੇ ਕਿ ਉਸ ਨੇ ਅਗੇ ਉਚੇਰੀ ਪ੍ਰੀਖਿਆ ਪਾਸ ਨਾ ਕੀਤੀ ਹੋਵੇ।
19. ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ ਭਾਗ-2 ਦਾ ਅਪਡੇਟਿਡ ਅੰਗਰੇਜ਼ੀ ਰੁਪਾਂਤਰ ਅੰਤਿਮ ਹੋਵੇਗਾ।

**ਸ.**

## **ਬਾਰੂਵੀਂ ਸ਼੍ਰੇਣੀ ਲਈ**

### **ਨਿਰੰਤਰ ਸਰਵਪੱਖੀ ਮੁਲਾਂਕਣ (ਸੀ.ਸੀ.ਈ.) ਦਾ ਮੌਡਿਊਲ**

ਪੰਜਾਬ ਸਰਕਾਰ ਵੱਲੋਂ ਜਾਰੀ ਹਦਾਇਤਾਂ ਦੀ ਲੋਅ ਵਿੱਚ ਅਕਾਦਮਿਕ ਸਾਲ 2010-11 ਤੋਂ ਰਾਜ ਦੇ ਸਮੂਹ ਸਕੂਲਾਂ ਵਿੱਚ ਬਾਰੂਵੀਂ ਸ਼੍ਰੇਣੀ ਵਿੱਚ ਸਮੈਸਟਰ ਪ੍ਰਣਾਲੀ ਲਾਗੂ ਕੀਤੀ ਗਈ ਹੈ ਜਿਸ ਅਧੀਨ 30% ਅੰਕ ਨਿਰੰਤਰ ਸਰਵਪੱਖੀ ਮੁਲਾਂਕਣ (Continuous Comprehensive Evaluation) (ਸੀ.ਸੀ.ਈ.) ਲਈ ਨਿਰਧਾਰਿਤ ਕੀਤੇ ਗਏ ਹਨ।

ਸੀ.ਸੀ.ਈ. ਦੇ 30% ਅੰਕਾਂ ਨੂੰ ਆਧਾਰ ਮੰਨਦੇ ਹੋਏ ਬਾਰੂਵੀਂ ਸ਼੍ਰੇਣੀ ਲਈ ਸਮੈਸਟਰਵਾਰ ਅਤੇ ਵਿਸ਼ਾਵਾਰ ਹੇਠ ਦਰਸਾਏ ਅਨੁਸਾਰ ਇੱਕ ਮੌਡਿਊਲ ਤਿਆਰ ਕੀਤਾ ਗਿਆ ਹੈ ਪਰੰਤੂ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਲਈ ਸੀ.ਸੀ.ਈ. ਲਈ ਵੱਖ-ਵੱਖ ਅੰਕ ਨਿਰਧਾਰਿਤ ਹੋਣ ਕਾਰਣ ਅਧਿਆਪਕਾਂ ਵੱਲੋਂ ਆਪਣੇ ਵਿਸ਼ੇ ਦੇ ਅੰਕਾਂ ਅਨੁਸਾਰ ਸੀ.ਸੀ.ਈ. ਦੇ ਅੰਕ Proportionately Compute ਕੀਤੇ ਜਾਣਗੇ।

#### **ਸਮੈਸਟਰਵਾਰ ਅੰਕ ਵੰਡ**

ਸੀ.ਸੀ.ਈ. ਸਕੀਮ ਨੂੰ ਵਧੇਰੇ ਪਾਰਦਰਸ਼ੀ ਬਣਾਉਣ ਲਈ ਅਤੇ ਵਿਦਿਅਕ ਗਤੀਵਿਧੀਆਂ ਤੇ ਆਧਾਰਿਤ ਕਰਨ ਹਿੱਤ ਸੀ. ਸੀ. ਈ. ਦੇ 30% ਅੰਕਾਂ ਦੀ ਵਿਸ਼ਾਵਾਰ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਤਜਵੀਜ਼ ਕੀਤੀ ਜਾਂਦੀ ਹੈ।

1. ਅਕਾਦਮਿਕ ਪ੍ਰਾਪਤੀਆਂ	20 ਅੰਕ
2. ਹਾਜ਼ਰੀ	1 ਅੰਕ

3.	ਵਿਦਿਆਰਥੀ ਦਾ ਆਮ ਵਿਵਹਾਰ ਅਤੇ ਅਨੁਸ਼ਾਸਨ	1 ਅੰਕ
4.	ਅਸਾਈਨਮੈਂਟ/ਪ੍ਰੋਜੈਕਟ ਵਰਕ/ਹੋਮਵਰਕ	3 ਅੰਕ
5.	ਸਹਿ ਅਕਾਦਮਿਕ ਕਿਰਿਆਵਾਂ	5 ਅੰਕ
	<b>ਕੁੱਲ ਅੰਕ</b>	<b>30ਅੰਕ</b>

## ਮੁਲਾਂਕਣ ਵਿਧੀ

ਉਪਰੋਕਤ ਸਮੂਹ ਪ੍ਰਾਪਤੀਆਂ ਅਤੇ ਗਤੀਵਿਧੀਆਂ ਦਾ ਮੁਲਾਂਕਣ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਕੀਤਾ ਜਾਵੇਗਾ।

### ਅਕਾਦਮਿਕ ਪ੍ਰਾਪਤੀਆਂ

**20 ਅੰਕ**

- ਪਹਿਲੇ ਸਮੈਸਟਰ ਵਿੱਚ ਡੀ.ਜੀ.ਐਸ.ਈ. ਪੰਜਾਬ ਵੱਲੋਂ ਜਾਰੀ ਵਿਦਿਅਕ ਕੈਲੰਡਰ ਵਿੱਚ ਦਰਸਾਈਆਂ ਮਿਤੀਆਂ ਅਨੁਸਾਰ 3 ਮਹੀਨਾਵਾਰ ਟੈਸਟ ਮਈ, ਜੁਲਾਈ ਅਤੇ ਅਗਸਤ ਵਿੱਚ ਲਏ ਜਾਣਗੇ ਅਤੇ ਇੱਕ ਪ੍ਰੀ-ਸਮੈਸਟਰ ਪ੍ਰੀਖਿਆ ਅਗਸਤ ਦੇ ਅਖੀਰੀ ਹਫ਼ਤੇ ਵਿੱਚ ਲਈ ਜਾਵੇਗੀ।
- 20 ਅੰਕਾਂ ਵਿੱਚੋਂ ਹਰੇਕ ਮਹੀਨਾਵਾਰ ਟੈਸਟ ਨੂੰ 4 ਅੰਕਾਂ ਦੀ ਵੇਟੇਜ (ਕੁੱਲ 12 ਅੰਕ) ਅਤੇ ਪ੍ਰੀ-ਸਮੈਸਟਰ ਪ੍ਰੀਖਿਆ ਨੂੰ 8 ਅੰਕਾਂ ਦੀ ਵੇਟੇਜ ਦਿੱਤੀ ਜਾਵੇਗੀ।
  - ਤਿੰਨ ਮਹੀਨਾਵਾਰ ਟੈਸਟ-ਹਰੇਕ ਟੈਸਟ ਦੇ 4 ਅੰਕ 12 ਅੰਕ
  - ਪ੍ਰੀ-ਸਮੈਸਟਰ ਪ੍ਰੀਖਿਆ 8 ਅੰਕ

**ਕੁੱਲ ਅੰਕ** 20 ਅੰਕ

### ਦੂਸਰਾ ਸਮੈਸਟਰ

**20 ਅੰਕ**

- ਦੂਸਰੇ ਸਮੈਸਟਰ ਵਿੱਚ 4 ਮਹੀਨਾਵਾਰ ਟੈਸਟ ਡੀ.ਜੀ.ਐਸ.ਈ. ਪੰਜਾਬ ਵੱਲੋਂ ਜਾਰੀ ਵਿਦਿਅਕ ਕੈਲੰਡਰ ਅਨੁਸਾਰ ਅਕਤੂਬਰ, ਨਵੰਬਰ, ਦਸੰਬਰ ਅਤੇ ਜਨਵਰੀ ਮਹੀਨੇ ਵਿੱਚ ਲਏ ਜਾਣਗੇ ਅਤੇ ਪ੍ਰੀ-ਸਮੈਸਟਰ ਪ੍ਰੀਖਿਆ ਫ਼ਰਵਰੀ ਦੇ ਦੂਸਰੇ ਹਫ਼ਤੇ ਵਿੱਚ ਲਈ ਜਾਵੇਗੀ।
- 20 ਅੰਕਾਂ ਵਿੱਚੋਂ ਹਰੇਕ ਮਹੀਨਾਵਾਰ ਟੈਸਟ ਨੂੰ 3 ਅੰਕਾਂ ਦੀ ਵੇਟੇਜ (ਕੁੱਲ 12 ਅੰਕ) ਅਤੇ ਪ੍ਰੀ-ਸਮੈਸਟਰ ਪ੍ਰੀਖਿਆ ਨੂੰ 8 ਅੰਕਾਂ ਦੀ ਵੇਟੇਜ ਦਿੱਤੀ ਜਾਵੇਗੀ।
  - ਚਾਰ ਮਹੀਨਾਵਾਰ ਟੈਸਟ-ਹਰੇਕ ਟੈਸਟ ਦੇ 3 ਅੰਕ 12 ਅੰਕ
  - ਪ੍ਰੀ-ਸਮੈਸਟਰ ਪ੍ਰੀਖਿਆ 8 ਅੰਕ

**ਕੁੱਲ ਅੰਕ** 20 ਅੰਕ
- ਸਕੂਲ ਵਿੱਚ ਹਾਜ਼ਰੀ :** **1 ਅੰਕ (ਪ੍ਰਤੀ ਸਮੈਸਟਰ)**  
(ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਕੂਲ ਵਿੱਚ 85% ਜਾਂ ਇਸ ਤੋਂ ਵੱਧ ਹਾਜ਼ਰੀਆਂ ਹੋਣ ਤੇ 1 ਅੰਕ ਦਿੱਤਾ ਜਾਵੇਗਾ)
- ਆਮ ਵਿਵਹਾਰ ਅਤੇ ਅਨੁਸ਼ਾਸਨ :** **1 ਅੰਕ (ਪ੍ਰਤੀ ਸਮੈਸਟਰ)**

(ਵਿਦਿਆਰਥੀ ਦਾ ਅਧਿਆਪਕ, ਸਹਿਪਾਠੀਆਂ ਅਤੇ ਸਕੂਲ ਵਾਤਾਵਰਨ ਪ੍ਰਤੀ ਵਿਵਹਾਰ)

4. ਅਸਾਈਨਮੈਂਟ/ਪ੍ਰੋਜੈਕਟ ਵਰਕ/ਹੋਮ ਵਰਕ : 3 ਅੰਕ (ਪ੍ਰਤੀ ਸਮੈਸਟਰ)  
(ਅਧਿਆਪਕ ਵਿਦਿਆਰਥੀਆਂ ਕੋਲੋਂ ਘੱਟੋ-ਘੱਟ 3 ਅਸਾਈਨਮੈਂਟ/ਪ੍ਰੋਜੈਕਟ ਪ੍ਰਤੀ ਸਮੈਸਟਰ ਤਿਆਰ ਕਰਵਾਏਗਾ) ਵਿਦਿਆਰਥੀ ਵੱਲੋਂ ਸਮਾਂ ਬੱਧ ਤਰੀਕੇ ਨਾਲ ਹੋਮਵਰਕ ਕਰਨ ਤੇ ਲੋੜੀਂਦੀ ਵੇਟੇਜ ਦਿੱਤੀ ਜਾਵੇ।
5. ਸਹਿ ਅਕਾਦਮਿਕ ਪੱਖ : 5 ਅੰਕ (ਪ੍ਰਤੀ ਸਮੈਸਟਰ)  
(ਖੇਡਾਂ/ਸਾਇੰਸ ਪ੍ਰਦਰਸ਼ਨੀ/ਸਾਇੰਸਡਰਾਮਾ/ਸਾਇੰਸ ਸੈਮੀਨਾਰ/ਐਨ.ਸੀ.ਸੀ./ਐਨ.ਐਸ.ਐਸ./ਗਰਲ ਗਾਈਡ/ ਸਕਾਉਟਿੰਗ/ ਬੋਰਡ ਵੱਲੋਂ ਕਰਵਾਏ ਜਾਂਦੇ ਵਿਦਿਅਕ ਮੁਕਾਬਲੇ ਵਾਤਾਵਰਨ ਸੁੱਰਖਿਆ/ਰੁੱਖ ਲਗਾਉਣੇ/ ਰਾਸ਼ਟਰੀ, ਧਾਰਮਿਕ ਅਤੇ ਸਮਾਜਿਕ ਮੇਲੇ ਆਦਿ। ਵਿਦਿਆਰਥੀ ਵੱਲੋਂ ਉਪਰੋਕਤ ਸਹਿ-ਅਕਾਦਮਿਕ ਕ੍ਰਿਆਵਾਂ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਵਿੱਚ ਭਾਗ ਲੈਣ ਤੇ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਅੰਕ ਦਿੱਤੇ ਜਾਣ।

### ਸਹਿ ਅਕਾਦਮਿਕ ਪੱਖਾਂ ਸੰਬੰਧੀ ਅੰਕ ਵੰਡ

- |      |               |       |
|------|---------------|-------|
| i.   | ਕੌਮੀ/ਰਾਜ ਪੱਧਰ | 5 ਅੰਕ |
| ii.  | ਜ਼ਿਲਾ ਪੱਧਰ    | 4 ਅੰਕ |
| iii. | ਤਹਿਸੀਲ ਪੱਧਰ   | 3 ਅੰਕ |
| iv.  | ਸਕੂਲ ਪੱਧਰ     | 2 ਅੰਕ |

## (A) SCHEME OF STUDIES (ACADEMIC STREAM) FOR Senior Secondary (12<sup>th</sup> Class) Examination

(a) Compulsory Subjects: Every candidate shall offer the following subjects:

Sr. No.	Subject	Semester - I				Semester -II			
		Marks				Marks			
		Th.	Pr.	CCE	Total	Th.	Pr.	CCE	Total
1.	General English	55	-	25	80	85	-	35	120
2.	General Punjabi	55	-	25	80	85	-	35	120
	Or Punjab History and Culture	55	-	25	80	85	-	35	120
3.	Environmental Education	30	-	10	40	40	-	20	60
4.	Computer Science	30	40	10	80	40	60	20	120

**\*Important Note:** Every candidate shall offer 'Environmental Education and Computer Science' as compulsory subjects. Examination of these subjects will be conducted at the school level. Evaluation also shall be done at



school level and result in the form of Grades as shown in the Pass Formula will be sent to the Board and same will be reflected on the Certificate.

- Note:** 1. A candidate who has passed the Matriculation examination from a Board other than the Punjab School Education Board can have Punjab History and Culture in lieu of the Compulsory Punjabi Subject in the 11<sup>th</sup>/12<sup>th</sup> classes. Such students will furnish proof of not having studied Punjabi at the Matric level.
2. A candidate who has passed Matriculation examination from the Punjab School Education Board with 'Punjab History and Culture' as a subject can opt for Punjab History and Culture in lieu of compulsory Punjabi in the 11<sup>th</sup> and 12<sup>th</sup> classes.

(b) Elective Subjects:

In addition to the compulsory subjects every candidate shall offer any of the following groups:

- Group I Humanities
- Group II Science
- Group III Commerce
- Group IV Agriculture
- Group V Technical

(c) Additional Subjects:

In addition to three elective subjects offered by a candidate out of the group (only in case of Humanities, Science and Agriculture groups) a student may offer one additional subject from the same group.

## HUMANITIES GROUP

Every candidate shall offer any three elective subjects from the following:

Sr. No.	Subject	Semester - I				Semester-II			
		Marks				Marks			
		Th.	Pr.	CCE	Total	Th.	Pr.	CCE	Total
1.	Language (anyone)								
i.	Punjabi (Elective)	55	-	25	80	85	-	35	120
ii.	Hindi	55	-	25	80	85	-	35	120
iii.	English(Elective)	55	-	25	80	85	-	35	120
iv.	Urdu	55	-	25	80	85	-	35	120
2.	Classical/Foreign Language (anyone)								
i.	Sanskrit	55	-	25	80	85	-	35	120
ii.	Arabic	55	-	25	80	85	-	35	120
iii.	Persian	55	-	25	80	85	-	35	120

iv.	OR								
v.	French	55	-	25	80	65	25	30	120
vi.	German	55	-	25	80	65	25	30	120
vii.	Russian	55	-	25	80	65	25	30	120
viii.	Korean	55	-	25	80	65	25	30	120
3.	History	55	-	25	80	85	-	35	120
4.	Economics	55	-	25	80	85	-	35	120
5.	Mathematics	55	-	25	80	85	-	35	120
6.	Business Organisation & Management	55	-	25	80	85	-	35	120
7.	Book Keeping and Accountancy	55	-	25	80	85	-	35	120
8.	Political Science	55	-	25	80	85	-	35	120
9.	Sociology	55	-	25	80	85	-	35	120
10.	Public Administration	55	-	25	80	85	-	35	120
11.	Philosophy	55	-	25	80	85	-	35	120
12.	Education	55	-	25	80	85	-	35	120
13.	Religion	55	-	25	80	85	-	35	120
14.	Geography	55	-	25	80	65	25	30	120
15.	Defence Studies	55	-	25	80	65	25	30	120
16.	Psychology	55	-	25	80	65	25	30	120
17.	History and Appreciation of Art	55	-	25	80	85	-	35	120
18.	Geometrical Perspective and Architectural Drawing	55	-	25	80	85	-	35	120
19.	Rural Development and Environment	55	-	25	80	85	-	35	120
20.	Insurance	55	-	25	80	85	-	35	120
	Computer Application	55	-	25	80	65	25	30	120
22.	Agriculture	55	-	25	80	65	25	30	120
23.	Home Science	30	40	10	80	40	60	20	120
24.	Music (Vocal)	30	40	10	80	40	60	20	120
25.	Gurmat Sangeet	30	40	10	80	40	60	20	120
26.	Music (Instrumental)	30	40	10	80	40	60	20	120
27.	Music (Tabla)	30	40	10	80	40	60	20	120
28.	Music (Dance)	30	40	10	80	40	60	20	120



	Biology	55	-	25	80	65	25	30	120
VI.	Computer Application	55	-	25	80	65	25	30	120
VII.	Elements of Electronic Engg.	30	40	10	80	40	60	20	120
VIII	Economics	55	-	25	80	85	-	35	120
IX.	Biotechnology	55	-	25	80	65	25	30	120

- Note: (1) In addition to three elective subjects offered by a candidate out of Science group a candidate desiring higher studies in Ayurveda, may offer Sanskrit as an additional language. The syllabus of Sanskrit will be the same as prescribed in the Humanities Group.
- (ii) The Syllabi in subjects of Economics, Geography, Home Science and Mathematics will be the same as prescribed in the Humanities Group.
- (iii) The syllabus in the subject of Agriculture will be same as prescribed in the Agriculture Group.

## COMMERCE GROUP

Sr. No.	Subject	Semester - I				Semester - II			
		Marks				Marks			
		Th.	Pr.	CCE	Total	Th.	Pr.	CCE	Total
1.	Business Studies-II	40	-	20	60	65	-	25	90
2.	Accountancy II	40	-	20	60	45	25	20	90
3.	Business Economics & Quantitative Methods-II	40	-	20	60	65	-	25	90
4.	Fundamentals of E-Business	40	-	20	60	45	25	20	90

A candidate can also offer an additional subject out of the following:

- (a) Computer Application  
(b) Mathematics

- Note:** (i) All the four Elective subjects i.e. Sr. No. 1 to 4 are compulsory.  
(ii) The syllabus of Computer Application will be the same as prescribed in Science and Humanities Group.  
(iii) The syllabus of Mathematics will be the same as prescribed in Humanities Group.

## AGRICULTURE GROUP

Sr. No	Subject	Semester - I				Semester - II			
		Marks							
		Th.	Pr.	CCE	Total	Th.	Pr.	CCE	Total
1.	Agriculture	55	-	25	80	65	25	30	120
2. & 3. Any two of the following:									
(i)	Physics	55	-	25	80	65	25	30	120
(ii)	Chemistry	55	-	25	80	65	25	30	120
(iii)	Economics	55	-	25	80	85	-	35	120
(iv)	Rural Development & Environment	55	-	25	80	85	-	35	120
(v)	Geography	55	-	25	80	65	25	30	120
A candidate can offer an additional subject out of the following:									
(a)	Mathematics	55	-	25	80	85	-	35	120
(b)	Computer Application	55	-	25	80	65	25	30	120

Note: The Syllabi in the subjects of Physics, Chemistry and Computer Application will be same as prescribed in the Science Group and that of Geography, Mathematics, Economics and Rural Development & Environment will be the same as in the Humanities Group.

Common Note :

CCE Marks have been rounded off upto 2 marks to make it 30%

Abbreviations :

Th - Theory  
Pr - Practical  
CCE - Continuous Comprehensive Evaluation.

## TECHNICAL GROUP

Every candidate shall offer the following subjects:

Sr. No.	Subject
(i)	Elements of Building Construction
(ii)	Elements of Electronics engineering

(iii)	Elements of Mech. engineering
(iv)	Elements of Elect. Engineering
(v)	Engineering Drawing
2.	Physics
3.	Chemistry
4.	Mathematics

Note: 1 A candidate can offer computer application as an additional subjects also. The syllabus of computer application will be the same as prescribed in Science Group.

Note: 2 The syllabus for Technical Group can be obtained from Director Academics, Punjab School Education Board, Mohali.

**CLASS-XII**  
**SYALLBUS**  
**1. GENERAL ENGLISH**  
**SEMESTER-I**

Time :- 2½ hrs

Theory : 55 Marks  
CCE / I. A.:25 Marks  
Total : 80 Marks

**STRUCTURE OF QUESTION PAPER**

**Part-A**

- 1) Do all questions (15 objective type questions based on total syllabus of Sem-1) 15 marks
- 2) Comprehension passage (English Reader Book VI) 8 marks
- 3) Translation from Vernacular into English. (3 Isolated sentences, English Reader). 3 marks

**Note:-** A special question in lieu of translation for foreign students.  
To paraphrase a stanza in simple English.

**Part-B**

- 4 a) Short answer type questions, Supplementary Reader (3questions out of 5 questions) 6 marks
- b) Central Idea of a poem (1 out of 2 questions) 2 marks

**Part-C**

- 5 a) Reference to the context & explanation. (1 out of 2) 4 marks
- b) Essay type question. (one out of two) from Supplementary Reader in about 125 words. 4 marks

- c) Essay type question (one out of two) from English Reader in about 100 words. 6 marks

**Part - D**

6. Do any one out of the following : Paragraph / an application/ letter  
Paragraph writing (descriptive only) (two)  
Application/ Letter (Personal/ (one) 7 marks

**SEMESTER-II**

Time-3 hrs

Theory :85 Marks  
CCE/ I. A.:35 Marks  
Total : 120 Marks

**STRUCTURE OF QUESTION PAPER**

**Part-A**

- 1) Do all questions (15 objective type questions based on total Syllabus of Sem. II) 15 marks  
2) Comprehension passage (English Reader Book VI) 10 marks  
3) Translation from Vernacular into English. (5 Isolated sentences, English Reader). 5 marks

**Note:-** A special question in lieu of translation for foreign students.

To paraphrase a stanza in simple English.

**Part-B**

- 4 a) Short answer type questions, Supplementary Reader (5 questions out of 7 questions) 15 marks  
b) Central Idea of a poem (1 out of 2 questions) 3 marks

**Part-C**

- 5 a) Reference to the context & explanation. (1 out of 2) 4 marks  
b) Essay type question. (one out of two) from Supplementary Reader in about 100 words. 7 marks  
c) Essay type question (one out of two) from English Reader in about 125 words. 8 marks

**Part - D**

- 6.a. Precis-writing 8 marks  
Letters (Letters to Editors and formal letters/official letters/one out of two) 10 marks

**MARKING SCHEME FOR COMPREHENSION**

Sr.No.	Questions	Sem. 1 M.M. 8	Sem. II M.M. 10
1.	Name of Writer and Chapter	2 marks	2 marks
2.	Short Question	1 mark	1 mark

3.	Short Question	1 mark	1 mark
4.	Match the following (two)	2 marks	2 marks
5.	Fill in the blanks (two)	1 mark	2 marks
6.	Give meanings in simple English (two)	1 mark	2 marks

### **INSTRUCTIONS FOR OBJECTIVE TYPE QUESTION FOR SEMESTER-1**

**Objective type question will cover the whole syllabus prescribed for Semester-I**

**Note :- All questions will be strictly based on the syllabus.**

All sub-questions are compulsory (marks-15)

Grammar : 8  
English Reader : 4  
Supplementary Reader : 3

**Q.1(a) Do as Directed :**

- Change the Tenses (2)
- Change the Voice (2)
- Change the Narration (2)
- Use of same word as Noun and Verb (1/2+1/2)

Use of Prepositions and Determiners in sentences (two) from the text (1/2+1/2)

**Attempt**

One sentence on Prepositions.

One sentence on Determiners

(b) One line answer question from English Reader 4 marks.

(c) One line answer question from Supplementary Reader 3 marks

### **INSTRUCTIONS FOR OBJECTIVE TYPE QUESTIONS FOR SEMESTER-II**

**For Semester-II objective type question will cover the whole syllabus, prescribed for Semester-II.**

Two (2) Question on Transformation of sentences will be asked. Weightage to change of Tenses, Voice, Narration and use of same word as Noun and Verb, use of Prepositions and Determiners will be reduced by half if sentences are repeated from Semester-I. More weightage to be given to questions based on Semester-II syllabus.

(b) One line answer questions from English Reader 4 marks.

(c) One line answer questions from Supplementary Reader 3 marks

Structure of Q1 part (b) and (c) will remain the same in both the semesters i.e. semester-I and semester-II.



## **SYLLABUS (SEMESTER-I)**

### **English Reader**

1. Monday Morning
2. All about a Dog
3. The Penguins
4. Treasure from the Deep
5. Fighting the Invisible
6. The Death of Socrates.

### **Supplementary Reader**

1. The Diamond Necklace
2. The Doctor's Word
3. The School for Sympathy
4. The Never Never Nest
5. The Variety and Unity of India.

### **Poems**

- 1 Stopping By woods on A Snowy evening
2. The Daffodils
3. Indian Weavers

### **Grammar**

1. Change the Tenses.
2. Determiners and Prepositions.
3. Voice
4. Narration
5. Use of words as a Noun and as a Verb
6. Letter-writing (Applications & Personal letters)
7. Paragraph-writing (Descriptive paragraphs only)

## **SYLLABUS (SEMESTER-II)**

### **English Reader**

1. Swami and his Father
2. Maori Villages
3. Alfred Nobel
4. The Easter Egg
5. On Patrol
6. Columbus Sails
7. Operation Indian Ocean
8. Nehru's Will and Testament

### **Supplementary Reader**

1. The Lost Child
2. Uncle Podger Hangs a Picture
3. Reconciliation
4. Tolstoy's Home
5. On Saying 'Please'
6. The Tank
7. Forgetting
8. Fasting as Penance

### **Poem**

1. Leisure
2. Where the Mind is without fear
3. No men are Foreign
4. Say not the struggle Naught Availeth.

### **Grammar**

1. Tenses
2. Voice
3. Narration
4. Use of same word as noun and Verb
5. Use of Prepositions and Determiners
6. Transformation of Sentences
8. Précis Writing
9. Letter (Formal)

## **2. ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ**

### **ਸਮੇਸਟਰ-I**

ਸਮਾਂ : 2 ½ ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ: 55 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 25 ਅੰਕ

ਕੁੱਲ : 80 ਅੰਕ

### **ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ**

ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈਂਟਰਾਂ ਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ।

ਪ੍ਰਸ਼ਨ:1- ਸਮੇਸਟਰ-1 ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ 'ਤੇ ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲੇ 10 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ

ਇੱਕ (1 ਅੰਕ) ਦਾ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :

ਪੰਜਾਬੀ- ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣ-ਪਛਾਣ : 6 ਅੰਕ (ਲੇਖਕ ਦੀ ਰਚਨਾ, ਰਚਨਾ ਦਾ ਲੇਖਕ, ਗਲਤ/ਠੀਕ, ਬਹੁ-ਚੋਣ, ਖਾਲੀ ਥਾਂਵਾਂ, ਇੱਕ-ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ।

ਕਵਿਤਾਵਾਂ : 1 ਅੰਕ (ਕਵਿਤਾ ਦਾ ਕਵੀ/ਕਵੀ ਦੀ ਰਚਨਾ)

ਕਹਾਣੀਆਂ : 1 ਅੰਕ (ਪਾਤਰਾਂ ਬਾਰੇ)

ਅਖਾਉਤਾਂ : 2 ਅੰਕ (ਦੋ ਅਧੂਰੀਆਂ ਅਖਾਉਤਾਂ ਪੂਰੀਆਂ ਕਰਨੀਆਂ)  $1 \times 10 = 10$

ਪ੍ਰਸ਼ਨ :2- ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-12 ਦੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਭਾਗ ਦੇ ਪਾਠ ਅਭਿਆਸਾਂ ਵਿੱਚੋਂ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਸੱਤ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਚਾਰ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  $4+4+4+4=16$

ਪ੍ਰਸ਼ਨ :3- ਕਾਰ-ਵਿਹਾਰ ਦੇ ਪੱਤਰ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦੇ ਬਾਰੇ ਪੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

$2+4+2=8$

ਪ੍ਰਸ਼ਨ :4- ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-12 ਵਿੱਚੋਂ ਕੋਈ ਸੱਤ ਅਖਾਉਤਾਂ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਚਾਰ ਨੂੰ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤਣ ਜਾਂ ਉਹਨਾਂ ਦੀਆਂ ਸਥਿਤੀਆਂ ਦੱਸਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  $2+2+2+2=8$

ਪ੍ਰਸ਼ਨ :5- ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ -12 ਵਿੱਚ ਦਿੱਤੀਆਂ ਕਵਿਤਾਵਾਂ ਵਿੱਚੋਂ ਦੋ ਕਵਿਤਾਵਾਂ ਦੇ ਕੇ ਇੱਕ ਦਾ ਕੇਂਦਰੀ ਭਾਵ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5

ਪ੍ਰਸ਼ਨ :6- ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-12 ਵਿੱਚੋਂ ਦੋ ਕਹਾਣੀਆਂ ਦੇ ਕੇ ਇੱਕ ਦਾ ਸਾਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 8

## ਪਾਠ-ਕ੍ਰਮ

1. ਪੰਜਾਬੀ-ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣ-ਪਛਾਣ:

(ਪੰਜਾਬੀ-ਸੱਭਿਆਚਾਰ, ਪੰਜਾਬ ਦਾ ਰਹਿਣ-ਸਹਿਣ, ਪੰਜਾਬ ਦੇ ਲੋਕ-ਕਿੱਤੇ, ਪੰਜਾਬ ਦੀਆਂ ਲੋਕ-ਕਲਾਵਾਂ)

2. ਕਾਰ-ਵਿਹਾਰ ਦੇ ਪੱਤਰ: 1 ਤੋਂ 4 ਤੱਕ (ਹੱਲ ਕੀਤੇ ਹੋਏ)

1 ਤੋਂ 6 ਤੱਕ (ਅਭਿਆਸ ਵਾਲੇ)

3. ਅਖਾਉਤਾਂ 1 ਤੋਂ 40 ਤੱਕ (ਹੱਲ ਕੀਤੇ ਹੋਏ)

1 ਤੋਂ 10 ਤੱਕ (ਅਭਿਆਸ ਵਾਲੇ)

4. ਕਵਿਤਾਵਾਂ ਡਾ. ਦੀਵਾਨ ਸਿੰਘ ਕਾਲੇਪਾਣੀ

ਪ੍ਰੋ. ਮੋਹਨ ਸਿੰਘ

5. ਕਹਾਣੀਆਂ ਸਾਂਝ (ਸੁਜਾਨ ਸਿੰਘ)

ਨੀਲੀ (ਕਰਤਾਰ ਸਿੰਘ ਦੁੱਗਲ)

## ਸਮੈਸਟਰ-II

ਸਮਾਂ : 3ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ: 85 ਅੰਕ

### ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ

ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈਂਟਰਾਂ ਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ

ਪ੍ਰਸ਼ਨ-1 ਸਮੈਸਟਰ-II ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ 'ਤੇ ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲੇ 15 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇੱਕ (1 ਅੰਕ) ਦਾ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :

ਪੰਜਾਬੀ- ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣ-ਪਛਾਣ : 11 ਅੰਕ (ਲੇਖਕ ਦੀ ਰਚਨਾ, ਰਚਨਾ ਦਾ ਲੇਖਕ, ਗਲਤ/ਠੀਕ, ਬਹੁ-ਚੋਣ ਵਾਲੇ ਪ੍ਰਸ਼ਨ, ਖਾਲੀ ਥਾਂਵਾਂ, ਇੱਕ-ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)।

ਕਵਿਤਾਵਾਂ : 1 ਅੰਕ (ਕਵਿਤਾ ਦਾ ਕਵੀ/ਕਵੀ ਦੀ ਰਚਨਾ)

ਕਹਾਣੀਆਂ : 1 ਅੰਕ (ਪਾਤਰਾਂ ਬਾਰੇ)

ਅਖ਼ਾਉਤਾਂ : 2 ਅੰਕ (ਦੋ ਅਧੂਰੀਆਂ ਅਖ਼ਾਉਤਾਂ ਪੂਰੀਆਂ ਕਰਨੀਆਂ) 15

ਪ੍ਰਸ਼ਨ-2 ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-12 ਦੇ ਪੰਜਾਬੀ-ਸੱਭਿਆਚਾਰ ਭਾਗ ਦੇ ਪਾਠ ਅਭਿਆਸਾਂ ਵਿੱਚੋਂ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਅੱਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਪੰਜ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5+5+5+5+5=25

ਪ੍ਰਸ਼ਨ-3 ਕਾਰ-ਵਿਹਾਰ ਦੇ ਪੱਤਰ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦੇ ਬਾਰੇ ਪੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

2+6+2=10

ਪ੍ਰਸ਼ਨ-4 ਸੰਖੇਪ-ਰਚਨਾਂ ਕਰਨ ਲਈ ਇੱਕ ਪੈਰਾ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਪਰੀਖਿਆਰਥੀ ਇਸ ਪੈਰੇ ਦੀ ਸੰਖੇਪ-ਰਚਨਾ ਕਰੇਗਾ ਜੋ ਮੂਲ ਪੈਰੇ ਦਾ ਲਗ-ਪਗ ਇੱਕ ਤਿਹਾਈ ਹੋਵੇਗਾ। ਸੰਖੇਪ-ਰਚਨਾ ਦਾ ਸਿਰਲੇਖ ਦੇਣ ਲਈ ਵੀ ਕਿਹਾ ਜਾਵੇਗਾ।

8+2=10

ਪ੍ਰਸ਼ਨ-5 ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-12 ਵਿੱਚੋਂ ਕੋਈ ਸੱਤ ਅਖ਼ਾਉਤਾਂ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਪੰਜ ਨੂੰ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤਣ ਜਾਂ ਉਹਨਾਂ ਦੀਆਂ ਸਥਿਤੀਆਂ ਦੱਸਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+ 2+2+2+2=10

ਪ੍ਰਸ਼ਨ 6 ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ -12 ਵਿੱਚ ਦਿੱਤੀਆਂ ਕਵਿਤਾਵਾਂ ਵਿੱਚੋਂ ਦੋ ਕਵਿਤਾਵਾਂ ਦੇ ਕੇ ਇੱਕ ਦਾ ਕੇਂਦਰੀ ਭਾਵ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5

ਪ੍ਰਸ਼ਨ-7 ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-12 ਵਿੱਚੋਂ ਦੋ ਕਹਾਣੀਆਂ ਦੇ ਕੇ ਇੱਕ ਦਾ ਸਾਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 10

### ਪਾਠ-ਕ੍ਰਮ

1. ਪੰਜਾਬੀ-ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣ-ਪਛਾਣ: (ਪੰਜਾਬ ਦੇ ਰਸਮ-ਰਿਵਾਜ, ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ, ਪੰਜਾਬ ਦੇ ਲੋਕ-ਵਿਸ਼ਵਾਸ, ਪੰਜਾਬ ਦੀਆਂ ਲੋਕ-ਖੇਡਾਂ, ਪੰਜਾਬ ਦੇ ਲੋਕ-ਗੀਤ, ਪੰਜਾਬ ਦੇ ਲੋਕ-ਨਾਚ, ਪੰਜਾਬ ਦੀਆਂ ਨਕਲਾਂ)
2. ਕਾਰ-ਵਿਹਾਰ ਦੇ ਪੱਤਰ                      5 ਤੋਂ 8 ਤੱਕ (ਹੱਲ ਕੀਤੇ ਹੋਏ)  
7 ਤੋਂ 14 ਤੱਕ (ਅਭਿਆਸ ਵਾਲੇ)
3. ਸੰਖੇਪ-ਰਚਨਾ                                  1 ਤੋਂ 8 ਤੱਕ (ਹੱਲ ਕੀਤੇ ਹੋਏ)  
1 ਤੋਂ 13 ਤੱਕ (ਅਭਿਆਸ ਵਾਲੇ)
4. ਅਖ਼ਾਉਤਾਂ                                      41 ਤੋਂ 90 ਤੱਕ (ਹੱਲ ਕੀਤੇ ਹੋਏ)  
11 ਤੋਂ 22 ਤੱਕ (ਅਭਿਆਸ ਵਾਲੇ)
5. ਕਵਿਤਾਵਾਂ                                      ਬਾਵਾ ਬਲਵੰਤ  
ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ  
ਤਾਰਾ ਸਿੰਘ
6. ਕਹਾਣੀਆਂ                                      ਆਪਣਾ ਦੇਸ (ਸੰਤੋਖ ਸਿੰਘ ਧੀਰ)  
ਮੈਨੂੰ ਜਾਣਨੈ (ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ)  
ਕਾਰ-ਖਿਡੌਣਾ (ਗੁਰਬਚਨ ਸਿੰਘ ਭੁੱਲਰ)

### **3. PUNJAB HISTORY & CULTURE SEMESTER - 1**

**Time-2½Hours**

**Theory: 55 Marks**

**CCE/Internal Assessment: 25 Marks**

**Total : 80 Marks**

#### **STRUCTURE OF QUESTION PAPER**

1. There will be 20 questions in all. All questions will be compulsory.
2. Question No. 1 to 10 will carry 1 mark each. Answer to each question should be in about 10 - 15 words.                                  1x10=10
3. Question No. 11 to 15 will carry 2 marks each. Answer to each question should be in about 20 - 25 words.                                  2x5=10
4. Question No. 16 to 18 will carry 5 marks each. Answer to each question should be in about 80-85 words.                                  5x3=15
5. Question No. 19 & 20 will carry 10 marks each. Answer to each question should be in about 250 - 300 words. Three will be 100% internal choice in these questions. The paper setter should not set more than one such question from one chapter.                                  10x2=20

6. Language of question paper should be simple and straight. No question should be based on quotation.
7. All units of the syllabus should be given adequate representation in the question paper.

### **SYLLABUS**

1. The great mughals and their legacy to the Punjab.
2. Guru Nanak Dev Ji.
3. Successors of Guru Nanak Dev Ji.
4. Banda Singh Bahadur and his martyrdom.

### **SEMESTER -II**

**Time-3 Hours**

**Marks: 85**

**Internal Assessment: 35**

**Total Marks: 120**

### **STRUCTURE OF QUESTION PAPER**

1. There will be 25 questions in all. All questions will be compulsory.
2. Question No. 1 to 10 will carry 1 mark each. Answer to each question should be in about 10 - 15 words.  $1 \times 10 = 10$
3. Question No. 11 to 15 will carry 2 marks each. Answer to each question should be in about 20 - 25 words.  $2 \times 5 = 10$
4. Question No. 16 to 21 will carry 5 marks each. Answer to each question should be in about 80-85 words.  $5 \times 5 = 25$
5. Question No. 22 to 25 will carry 10 marks each. Answer to each question should be in about 250 - 300 words. Three will be 100% internal choice in these questions. The paper setter should not set more than one such question from one chapter.  $10 \times 4 = 40$
6. Language of question paper should be simple and straight. No question should be based on quotation.
7. All units of the syllabus should be given adequate representation in the question paper.

### **SYLLABUS**

1. Sikhs became the Masters of the Punjab.
2. The Punjab under Maharaja Ranjit Singh.
3. The British occupation of the Punjab.
4. Some famous Legends of the Punjab:-
  - a. Puraan Bhagat
  - b. Heer Ranjha
  - c. Sohni Mahiwal

5. Classical Literature of the Medieval period.

## 4. ENVIRONMENTAL EDUCATION

### SEMESTER-I

**Theory : 30 Marks**

**CCE/IA : 10 Marks**

**Total : 40 Marks**

**Time : 2 hrs**

#### STRUCTURE OF QUESTION PAPER

1. There will be one theory paper comprising of 14 questions. All questions will be compulsory.
2. Question No. 1-5 are very short answer type questions carrying 1 mark each. Answer to each question will be in one line or few words only.
3. Question No. 6-9 are short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.
4. Question No. 10-13 are short answer type questions carrying 3 marks each. Answer to each question will be in 40-50 words.
5. Question No. 14 is long answer type question carrying 5 marks each. Answer to this question will be in 80-100 words.

Questions	No. of Questions	Division of Mark	Total Marks
1 – 5	5	$5 \times 1 = 5$	5
6 – 9	4	$4 \times 2 = 8$	8
10 – 13	4	$4 \times 3 = 12$	12
14	1	$1 \times 5 = 5$	5
<b>Total</b>	<b>14</b>		<b>30</b>

### SYLLABUS

#### Unit 1 Biodiversity

- concept and value of biodiversity
- Levels of biodiversity species eco and genetic.
- Balance in nature
- Biodiversity for sustenance of mankind.
- Resource limitation.
- Ecological role of biodiversity.
- Interdependence between different species.
- India as a mega diversity nation.
- Economic potential of biodiversity.
- loss of biodiversity-threatened, endangered and extinct.
- Strategies for conservation of biodiversity in situ and ex situ.

- Mitigating the people-wildlife conflict.

## **Unit II Environmental Management**

- Need for environmental management vis-à-vis development.
- Aspects of environmental management-ethical, economic, technological and social.
- Legal provisions for environmental management.
- Approaches for environmental management-economic policies, environmental indicators, setting of standards, information exchange and surveillance.

## **Unit V Environmental Actions**

- Meeting basic human needs, food, water, shelter and fuel for all.

### **SEMESTER-I**

#### **Exemplar projects and Activities**

- To study the status of an endangered species listed for region by collecting information through different sources and observation and to assess the reasons for its diminishing number. Suggest ways and means to protect the species.
- To conduct a survey of plants and trees in the locality and collect information about their cultural, economic and medicinal values from the local people and available literature. To prepare an action plan for afforestation planning of trees as trees are the most valuable in terms of their cultural, economic importance and medicinal use.

### **SEMESTER-II**

**Time : 2 hrs**

**Theory : 40 Marks**

**CCE/IA : 20 Marks**

**Total Marks : 60 Marks**

#### **STRUCTURE OF QUESTION PAPER**

1. There will be one theory paper comprising of 17 questions. All questions will be compulsory.
2. Question No. 1-5 are very short answer type questions carrying 1 mark each. Answer to each question will be in one line or few words only.
3. Question No. 6-10 are short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.
4. Question No. 11-15 are short answer type questions carrying 3 marks each. Answer to each question will be in 40-50 words.
5. Question No. 16-17 is long answer type question carrying 5 marks each. Answer to this question will be in 80-100 words.



Questions	No. of Questions	Division of Mark	Total Marks
1 – 5	5	$5 \times 1 = 5$	5
6 – 10	5	$5 \times 2 = 10$	10
11 – 15	5	$5 \times 3 = 15$	15
16-17	2	$2 \times 5 = 10$	10
<b>Total</b>	<b>17</b>		<b>40</b>

### **Unit III Sustainable Development**

- Concept of sustainable development.
- Concept of sustainable consumption.
- Need for sustainable development for improving the quality of life for the present and future.
- Challenges for sustainable development-political and administrative will, dynamic and flexible policies, appropriate technologies, comprehensive review and revision mechanism, human approach.
- Development of skilled manpower.
- Role of individual and community.
- Role of national and International agencies (both governmental and non-governmental).

### **Unit IV Sustainable Agriculture**

- Need for sustainable agriculture
- Green revolution- impact on environment.
- Importance of soil for crops. Irrigation systems use of manure and fertilizers.
- Crop protection-major plant pests and diseases (wheat, rice, cotton sugarcane, potato), measures for their control-agrochemicals.
- Impact of agrochemicals on environment.
- Elements of sustainable agriculture-mixed farming, mixed cropping, crop rotation, biological and economic considerations, use of bio fertilizers and bio pesticides, biological pest control, integrated pest management.
- Application of biotechnology in crop improvement.
- Management of agricultural produce- storage, preservation, transportation and processing.

### **Unit -V Environmental Actions**

- Population Control
- Changing consumption patterns.
- Prevention and control of environmental pollution,

- Waste management- reduce, reuse and recycle.
- Community movement for ecological restoration and conservation of environment like Joint Forest Management (JFM), student's participation in tree rearing, social and agro-forestry.

## **CCE**

### **SEMESTER-II**

#### **Exemplar projects and Activities**

- To study the practices followed in the region for storage, preservation, transportation and processing of perishable or non perishable farm products and to assess the extent of their wastage due to faulty practices.
- To make a list of raw materials used by the family for preparing different types of dishes. To identify the plants and their parts from which food material is obtained. To make a list of plants on which the animals depend for their food. To prepare a report supported by diagrams/ photographs/ pictures/ graphs to focus on the importance of biodiversity in providing food to human population.
- To study the impact of changes in agricultural practices or animal husbandry including poultry, piggery, fishery and apiculture over a period of time in the local environment or in a given locality or village. The components for analysis may include; types of crops, land area under cultivation, mechanization, use of electricity, mode of irrigation and agrochemicals, agro wastes and their disposal, types of animal breed and their feed, types of shelter and health care, methods of preservation and processing of products and animal wastes and their disposal. To suggest an action plan for modifying the prevailing practices so as to make them environment friendly and sustainable.

## 5. ਕੰਪਿਊਟਰ ਸਾਇੰਸ

### ਸਮੈਸਟਰ - I

ਸਮਾਂ : 2 ਘੰਟੇ 30 ਮਿਨਟ

ਲਿਖਤੀ : 30 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਇੰਟ, ਅਸੈਸ. : 10 ਅੰਕ

ਪ੍ਰਯੋਗੀ : 40 ਅੰਕ

ਕੁੱਲ : 80 ਅੰਕ

### ਅਗਵਾਈ ਲੀਗਾਂ (ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਤਿੰਨ ਭਾਗਾਂ (ਭਾਗ-ੳ, ਭਾਗ-ਅ, ਭਾਗ-ੲ) ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ ।
2. ਭਾਗ-ੳ ਅਬਜੈਕਟਿਵ ਟਾਇਪ ਹੋਵੇਗਾ ਜਿਸ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 1 ਤੋਂ 8 ਤੱਕ 1-1 ਅੰਕ ਦੇ 8 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ
3. ਭਾਗ-ਅ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 9 ਤੋਂ 12 ਤੱਕ 3-3 ਅੰਕ ਦੇ 4 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ ।
4. ਭਾਗ-ੲ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 13 ਤੋਂ 14 ਤੱਕ 5-5 ਅੰਕ ਦੇ 2 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
5. ਭਾਗ-ੳ ਅਤੇ ਭਾਗ-ਅ ਦੇ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹੋਣਗੇ। ਭਾਗ-ਅ ਅਤੇ ਭਾਗ-ੲ ਵਿੱਚ ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਜਾਂ ਵੱਧ ਭਾਗ ਵੀ ਹੋ ਸਕਦੇ ਹਨ। ਭਾਗ-ੲ ਵਿੱਚ ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।
6. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਸਮੈਸਟਰ-I ਲਈ ਨਿਰਧਾਰਤ ਪਾਠ ਕ੍ਰਮ ਦਾ ਪੂਰਕ ਹੋਵੇਗਾ।

### ਪਾਠ ਕ੍ਰਮ (ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

1. ਗਿਆਰ੍ਹਵੀਂ ਕਲਾਸ ਦੀ ਦੁਹਰਾਈ  
ਸੀ ਭਾਸ਼ਾ ਵਿੱਚ ਪ੍ਰੋਗਰਾਮਿੰਗ ਲਈ ਭੂਮਿਕਾ  
ਕਮਪਾਇਲਰ ਨਿਰਦੇਸ਼  
ਐਰੇ : ਐਰੇ ਵਿੱਚ ਡਾਟਾ ਭਰਨਾ, ਐਰੇ ਦੇ ਮੁੱਲਾਂ ਦੀ ਪਹੁੰਚ ਕਰਨੀ, ਦੋ ਡਾਇਮੈਸ਼ਨਲ ਐਰੇ ਦੀ ਡਿਕਲੇਅਰੇਸ਼ਨ
2. ਸਟਰਿੰਗ ਫੰਕਸ਼ਨ ਦੀ ਵਰਤੋਂ  
ਭੂਮਿਕਾ  
ਡਿਕਲੇਅਰੇਸ਼ਨ ਅਤੇ ਇਨੀਸ਼ਿਅਲਾਈਜ਼ਿੰਗ ਸਟਰਿੰਗ ਵੇਰੀਏਬਲਜ਼  
ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਦੀ ਪ੍ਰਿੰਟਿੰਗ ਪ੍ਰਦਰਸ਼ਿਤ ਕਰਨੀ  
ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ ਅਤੇ ਲਿਖਣਾ : ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ, ਸਟਰਿੰਗ ਲਿਖਣਾ, ਮੋਨੀਟਰ ਤੋਂ ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ  
ਸਧਾਰਣ ਇਨਪੁੱਟ ਆਊਟਪੁੱਟ  
ਸਟਰਿੰਗ ਉਪਰੇਸ਼ਨ : ਸਟਰਕਟ ਫੰਕਸ਼ਨ (strcat () function)  
ਸਟਰਕਮਪ ਫੰਕਸ਼ਨ (strcmp () function)  
ਸਟਰਲਵਰ ਫੰਕਸ਼ਨ (strlwr () function)  
ਸਟਰਰੀਵ ਫੰਕਸ਼ਨ (strrev () function)  
ਸਟਰਅਪਰ ਫੰਕਸ਼ਨ (strupr () function)

ਪ੍ਰੋਗਰਾਮ ਪਰਿਭਾਸ਼ਾ -1

ਇਕ ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਫੰਕਸ਼ਨਜ਼ ਦੀ ਵਰਤੋਂ ਬਿਨਾਂ ਦੋ ਸਟਰਿੰਗ ਨੂੰ ਕਨਕੇਟੀਨੇਟ (concatenate) ਕਰਨ ਲਈ ਅਤੇ ਇੱਕ ਨਵੀਂ ਸਟਰਿੰਗ ਬਣਾਉਣ ਲਈ।

ਪ੍ਰੋਗਰਾਮ ਪਰਿਭਾਸ਼ਾ - 2

ਇਕ ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਫੰਕਸ਼ਨਜ਼ ਦੀ ਵਰਤੋਂ ਦੋ ਬਿਨਾਂ ਦੋ ਸਟਰਿੰਗਜ਼ ਦੀ ਤੁਲਨਾ ਲਈ।

ਪ੍ਰੋਗਰਾਮ ਪਰਿਭਾਸ਼ਾ - 3

ਇਕ ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਦੀ ਵਰਤੋਂ ਬਿਨਾਂ ਦਿੱਤੇ ਗਏ ਟੈਕਸਟ ਨੂੰ ਉਲਟਾਉਣ ਲਈ।

### 3. ਯੂਜਰ ਡਿਫਾਇੰਡ ਫੰਕਸ਼ਨਜ਼

ਭੂਮਿਕਾ

ਬਿਲਟ ਇੰਨ ਫੰਕਸ਼ਨ / ਲਾਇਬਰੇਰੀ ਫੰਕਸ਼ਨ : ਯੂਜਰ ਡਿਫਾਈਨ ਫੰਕਸ਼ਨ , ਫੰਕਸ਼ਨਜ਼ ਦੀ ਜ਼ਰੂਰਤ

ਆਰਗੂਮੈਂਟ ਅਤੇ ਪੈਰਾਮੀਟਰ

ਕੋਡ ਲਾਈਨ

ਮਲਟੀਫੰਕਸ਼ਨ ਪ੍ਰੋਗਰਾਮ

ਫੰਕਸ਼ਨ ਦੀ ਬਣਤਰ

ਰਿਟਰਨ ਮੁੱਲ ਅਤੇ ਉਹਨਾਂ ਦੇ ਟਾਈਪਸ, ਸਿੰਪਲ ਰਿਟਰਨ

ਫੰਕਸ਼ਨ ਨੂੰ ਕਾਲ ਕਰਨਾ

ਫੰਕਸ਼ਨ ਨਾਲ ਆਰਗੂਮੈਂਟ, ਬਗੈਰ ਰਿਟਰਨ ਮੁੱਲ

ਸਟੋਰੇਜ ਸ਼੍ਰੇਣੀਆਂ

ਸਟੈਟਿਕ ਵੇਰੀਏਬਲ

ਐਕਸਟਰਨਲ ਵੇਰੀਏਬਲ

ਫੰਕਸ਼ਨ ਬਗੈਰ ਆਰਗੂਮੈਂਟ, ਰਿਟਰਨ ਮੁੱਲ ਨਾਲ

**ਸਮੇਸਟਰ - I (ਬਾਰੂਵੀਂ)**

**ਅਗਵਾਈ ਲੀਹਾਂ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)**

ਸਮਾਂ : 3 ਘੰਟੇ

40 : ਅੰਕ

ਪ੍ਰੀਖਿਆ ਲਈ ਅੰਕ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :

ਸੈਕਸ਼ਨ - ਏ	ਵਾਇਵਾ - ਵੋਸ	5
ਸੈਕਸ਼ਨ - ਬੀ	ਪ੍ਰੋਗਰਾਮ ਰਿਕਾਰਡ ਫਾਇਲ	5
ਸੈਕਸ਼ਨ - ਸੀ	ਛੋਟੇ ਪ੍ਰੋਗਰਾਮ	10
ਸੈਕਸ਼ਨ - ਡੀ	ਵੱਡੇ ਪ੍ਰੋਗਰਾਮ	20

1. ਸੈਕਸ਼ਨ ਏ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਤੋਂ ਪਾਠ ਕ੍ਰਮ ਵਿੱਚੋਂ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਇੱਕ ਇੱਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਅਬਜੈਕਟਿਵ ਟਾਈਪ ਜਾਂ ਵਿਆਖਿਆ ਦੱਸਣੀ ਜਾਂ ਕੰਪਿਊਟਰ ਦੇ ਵੱਖ ਵੱਖ ਹਿੱਸਿਆਂ ਅਤੇ ਇਸ ਨਾਲ ਜੁੜੇ ਸਹਾਇਕਾਂ ਦੇ ਬਹੁਤ ਛੋਟੇ ਅਭਿਆਸ ਹੋਣਗੇ। 1 × 5 = 5 ਅੰਕ
2. ਸੈਕਸ਼ਨ ਬੀ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਦਾ ਸਲਾਨਾ ਰਿਕਾਰਡ ਚੈਕ ਕੀਤਾ ਜਾਵੇਗਾ। 5 ਅੰਕ
3. ਸੈਕਸ਼ਨ ਸੀ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰਸ਼ਨ/ਪ੍ਰੋਗਰਾਮ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਦੋ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਕਰਨ ਦੀ ਖੁੱਲ੍ਹ ਹੋਵੇਗੀ। ਹਰ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਪੰਜ-ਪੰਜ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ, ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਲਈ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈੱਟਰ ਕਰਕੇ ਦੇਵੇਗਾ। 10 ਅੰਕ
4. ਸੈਕਸ਼ਨ ਡੀ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰਸ਼ਨ/ਪ੍ਰੋਗਰਾਮ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਦੋ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਕਰਨ ਦੀ ਖੁੱਲ੍ਹ ਹੋਵੇਗੀ। ਹਰ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਦਸ-ਦਸ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ, ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਲਈ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈੱਟਰ ਕਰਕੇ ਦੇਵੇਗਾ। 20 ਅੰਕ

### ਪਾਠ ਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

#### 1. ਸਟਰਿੰਗ ਫੰਕਸ਼ਨ ਦੀ ਵਰਤੋਂ

ਸਟਰਿੰਗ ਫੰਕਸ਼ਨ : ਡੇਕਲੇਰੇਸ਼ਨ, ਇਨਿਸ਼ਿਯਲਾਈਜ਼ੇਸ਼ਨ

ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਦੀ ਪ੍ਰਿੰਟਿੰਗ ਪ੍ਰਦਰਸ਼ਿਤ ਕਰਨੀ

ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ ਅਤੇ ਲਿਖਣਾ

ਸਾਧਾਰਣ ਇੰਨਪੁਟ / ਆਊਟਪੁੱਟ ਗੈਟਚਰ, ਪੁੱਟਚਰ, ਪ੍ਰਿੰਟਐਫ ( I/O getchar(), putchar(), printf() )

ਸਟਰਿੰਗ ਐਪਰੇਸ਼ਨ (string.h)

#### 2. ਯੂਜ਼ਰ ਡਿਫਾਇੰਡ ਫੰਕਸ਼ਨਜ਼

ਬਿਲਟ-ਇੰਨ ਫੰਕਸ਼ਨਜ਼/ਲਾਈਬ੍ਰੇਰੀ ਫੰਕਸ਼ਨਜ਼

ਆਰਗੂਮੈਂਟਸ ਅਤੇ ਪੈਰਾਮੀਟਰਜ਼

ਕੋਡ ਲਾਈਨ

ਮਲਟੀਫੰਕਸ਼ਨ  
ਫੰਕਸ਼ਨ ਦੀ ਬਣਤਰ  
ਫੰਕਸ਼ਨ ਨੂੰ ਕਾਲ ਕਰਨਾ

## ਸਮੈਸਟਰ - II

ਸਮਾਂ : 3 ਘੰਟੇ

ਲਿਖਤੀ : 40 ਅੰਕ  
ਸੀ.ਸੀ.ਈ./ਇੰਟ, ਅਸੈਸ. 20 ਅੰਕ  
ਪ੍ਰਯੋਗੀ : 60 ਅੰਕ  
ਕੁੱਲ : 120 ਅੰਕ

### ਅਗਵਾਈ ਲੀਹਾਂ (ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਤਿੰਨ ਭਾਗਾਂ (ਭਾਗ-ਓ, ਭਾਗ-ਅ, ਭਾਗ-ੲ) ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ।
2. ਭਾਗ-ਓ ਅਬਜੈਕਟਿਵ ਟਾਇਪ ਹੋਵੇਗਾ ਜਿਸ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 1 ਤੋਂ 12 ਤੱਕ 1-1 ਅੰਕ ਦੇ 12 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
3. ਭਾਗ-ਅ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 13 ਤੋਂ 18 ਤੱਕ 3-3 ਅੰਕ ਦੇ 6 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
4. ਭਾਗ-ੲ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 19 ਤੋਂ 20 ਤੱਕ 5-5 ਅੰਕ ਦੇ 2 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
5. ਭਾਗ-ਓ ਅਤੇ ਭਾਗ-ਅ ਦੇ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹੋਣਗੇ। ਭਾਗ-ਅ ਅਤੇ ਭਾਗ-ੲ ਵਿੱਚ ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਜਾਂ ਵੱਧ ਭਾਗ ਵੀ ਹੋ ਸਕਦੇ ਹਨ। ਭਾਗ-ੲ ਵਿੱਚ ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।
6. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਸਮੈਸਟਰ-II ਲਈ ਨਿਰਧਾਰਤ ਪਾਠ ਕ੍ਰਮ ਦਾ ਪੂਰਕ ਹੋਵੇਗਾ।

### ਪਾਠ ਕ੍ਰਮ (ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

1. ਵਿੰਡੋ ਮੂਵੀ ਮੇਕਰ -1

ਭੂਮਿਕਾ

ਫਾਈਲ ਦੀਆਂ ਕਿਸਮਾਂ : ਆਡੀਓ ਫਾਈਲ, ਵੀਡੀਓ ਫਾਈਲ, ਪਿਕਚਰ ਫਾਈਲ

ਕੋਲੈਕਸ਼ਨਜ਼, ਪ੍ਰੋਜੈਕਟ ਅਤੇ ਮੂਵੀਜ਼ ਨੂੰ ਜਾਨਣਾ

ਸੋਰਸ ਫਾਈਲ

ਵੀਡੀਓ ਕੈਪਚਰ ਡੀਵਾਈਸਜ਼

ਆਡੀਓ ਕੈਪਚਰ ਡੀਵਾਈਸਜ਼

ਕੈਪਚਰ ਡੀਵਾਈਸ ਦੀ ਸੂਚੀ : ਵੈਬ ਕੈਮਰਾ, ਐਨਾਲਾਗ ਕੈਮਰਾ ਜਾਂ ਵੀ. ਸੀ. ਆਰ. (V.C.R) ਦਾ ਐਨਾਲਾਗ ਕੈਪਚਰ (capture) ਕਾਰਡ ਨਾਲ ਜੋੜ

ਡਿਜੀਟਲ ਵੀਡੀਓ ਕੈਮਰਾ ਜਾਂ ਵੀ.ਸੀ. ਆਰ ਦਾ IEEE 1394 ਪੋਰਟ ਨਾਲ ਜੋੜ, ਮਾਈਕਰੋਫੋਨ ਦਾ ਸਾਉਂਡ ਕਾਰਡ ਜਾਂ ਯੂ. ਐਸ. ਬੀ ਪੋਰਟ ਨਾਲ ਜੋੜ

ਵਿੰਡੋਜ਼ ਮੂਵੀ ਮੇਕਰ ਇੰਟਰਫੇਸ : ਮੀਨੂੰ ਬਾਰ ਅਤੇ ਟੂਲ-ਬਾਰ, ਪੇਨਜ਼, ਸਟੋਰੀ-ਬੋਰਡ ਜਾਂ ਟਾਈਮ ਲਾਈਨ ਪੇਨਜ਼ : ਕੋਲੈਕਸ਼ਨ ਪੇਨ, ਕਾਨਟੈਂਟਸ ਪੇਨ, ਡੀਟੇਲਜ਼, ਬੰਬ ਨੇਲ, ਮੋਨੀਟਰ

ਸਟੋਰੀਬੋਰਡ : ਸਟੋਰੀ ਬੋਰਡ ਦੀ ਵਰਤੋਂ, ਸਟੋਰੀ ਬੋਰਡ ਦਾ ਨਿਰਮਾਣ

ਵਿੰਡੋਜ਼ ਮੂਵੀਮੇਕਰ ਦੀ ਵਰਤੋਂ : ਮੂਵੀ ਟਾਸਕ ਪੇਨ, ਵੀਡੀਓ ਕੈਪਚਰ, ਐਡਿਟ ਵੀਡੀਓ, ਫਿਨਿਸ਼ ਵੀਡੀਓ

ਕੋਲੈਕਸ਼ਨ, ਸਪਲਿਟ ਬਟਨ, ਸਕਰੀਨ ਸ਼ਾਟ ਬਟਨ, ਵੀਡੀਓ ਟਰੈਕ, ਆਡੀਓ ਟਰੈਕ, ਟਾਈਟਲ ਟਰੈਕ

ਹੈਂਡਜ਼ ਆਨ ਵਿੰਡੋਜ਼ ਮੂਵੀਮੇਕਰ (hands on windows movie maker) : ਨਿਊ ਪ੍ਰੋਜੈਕਟ ਖੋਲ੍ਹਣਾ, ਆਪਣੇ ਕੰਪਿਊਟਰ ਤੋਂ ਵੀਡੀਓ ਇਮਪੋਰਟ ਕਰਨਾ

ਪਿਕਚਰ ਇੰਪੋਰਟ ਕਰਨਾ

ਵੀਡੀਓ ਸਕਰੀਨ/ ਮੋਨੀਟਰ : ਕਲਿਪ ਨੂੰ ਦੇਖਣਾ, ਨਿਊ ਕੋਲੈਕਸ਼ਨ ਬਣਾਉਣਾ, ਆਡੀਓ ਜਾਂ ਵੀਡੀਓ ਨੂੰ ਦੋ ਭਾਗਾਂ ਵਿੱਚ ਵੰਡਣਾ, ਸਪਲਿਟ ਕੀਤੀ ਹੋਈ ਆਡੀਓ ਜਾਂ ਵੀਡੀਓ ਨੂੰ ਜੋੜਨਾ, ਕਲਿਪ ਨੂੰ ਕੋਲੈਕਸ਼ਨ ਵਿੱਚ ਕਾਪੀ ਕਰਨਾ, ਇਕ ਵੀਡੀਓ ਤੋਂ ਮੋਨੀਟਰ ਰਾਹੀਂ ਪਿਕਚਰ ਲੈਣੀ

## 2. ਵਿੰਡੋ ਮੂਵੀ ਮੇਕਰ - 2

ਭੂਮਿਕਾ

ਟਾਈਮ-ਲਾਈਨ ਵਿਊ

ਸਟੋਰੀ ਬੋਰਡ ਵਿੱਚ ਵੀਡੀਓ ਕਲਿੱਪ ਜੋੜਨਾ

ਸਟੋਰੀ ਬੋਰਡ ਵਿੱਚ ਦੁਬਾਰਾ ਤੋਂ ਤਰਤੀਬ ਵਾਰ ਕਰਨਾ, ਟਾਈਮ ਲਾਈਨ ਦਾ ਪ੍ਰਯੋਗ ਕਰਦੇ ਹੋਏ ਕਲਿਪਸ ਤੋੜਨਾ, ਇਕ ਵੀਡੀਓ ਨੂੰ ਤੋੜਨਾ

ਕਲਿਪਸ ਦੀ ਟਰੀਮਿੰਗ : ਕਲਿਪਸ ਦੀ ਛਟਾਈ ਕਰਨਾ, ਇਕ ਕਲਿਪ ਦੀ ਟਰਿਮ ਜਾਂ ਛਾਂਟੀ ਕਰਨਾ, ਟਰਿਮ ਪੁਆਇੰਟ ਨੂੰ ਸਾਫ਼ ਕਰਨਾ, ਟੁੱਟੇ ਹੋਏ ਵੀਡੀਓ ਕਲਿਪਸ ਨੂੰ ਆਪਸ ਵਿੱਚ ਜੋੜਨਾ, ਮੂਵੀ ਨੂੰ ਐਡਿਟ ਕਰਨਾ, ਵੀਡੀਓ ਟਰਾਂਜਿਸ਼ਨ, ਵੀਡੀਓ ਇਫੈਕਟਸ, ਟਾਈਟਲ ਅਤੇ ਕਰੈਡਿਟਸ, ਵੀਡੀਓ ਟਰਾਂਜਿਸ਼ਨ ਨੂੰ ਲਾਗੂ ਕਰਨਾ, ਵੀਡੀਓ ਇਨਫੈਕਟਸ ਜੋੜਨਾ, ਟਾਈਟਲ ਤੇ ਕਰੈਡਿਟ, ਪ੍ਰੀ-ਵਿਊ ਮੂਵੀ ਟਾਈਟਲ, ਆਡੀਓ ਐਡ ਕਰਨਾ, ਆਡੀਓ ਨੂੰ ਪਿਕਚਰ ਨਾਲ ਅਲਾਈਨ ਕਰਨਾ, ਆਡੀਓ ਕਲਿਪ ਦਾ ਟਾਈਮ ਲਾਈਨ ਵਿਊ, ਐਡਿਟਿੰਗ ਆਡੀਓ, ਵੀਡੀਓ ਦਾ ਆਡੀਓ ਘੱਟ ਜਾਂ ਵੱਧ ਕਰਨਾ

## 3. ਨੈਟਵਰਕਿੰਗ ਸੰਕਲਪ

ਭੂਮਿਕਾ

ਨੈੱਟਵਰਕਰ ਕੀ ਹੁੰਦਾ ਹੈ; ਨੈੱਟਵਰਕਿੰਗ ਲਈ ਲੋੜ, ਨੈੱਟਵਰਕਿੰਗ ਟਰਮੀਨੋਲੋਜੀ

ਨੈੱਟਵਰਕ ਦੀਆਂ ਕਿਸਮਾਂ

ਨੈੱਟਵਰਕ ਟੋਪੋਲੋਜੀ : ਟੋਪੋਲੋਜੀ ਕੀ ਹੁੰਦੀ ਹੈ, ਭੌਤਿਕ ਟੋਪੋਲੋਜੀ ਦੀਆਂ ਮੁੱਖ ਕਿਸਮਾਂ, ਲੀਨੀਅਰ ਬੱਸ ਟੋਪੋਲੋਜੀ,

ਸਟਾਰ -ਟੋਪੋਲੋਜੀ, ਟ੍ਰੀ- ਟੋਪੋਲੋਜੀ, ਮੈਸ਼- ਟੋਪੋਲੋਜੀ, ਪਾਰਸ਼ਲ ਮੈਸ਼- ਟੋਪੋਲੋਜੀ

ਪ੍ਰੋਟੋਕੋਲਜ਼ : ਯੂਨੀਫਾਰਮ ਰਿਸੋਰਸ ਲੋਕੇਟਰ (ਯੂ.ਆਰ.ਐਲ) ਫਾਈਲ ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ ਅਤੇ ਹਾਈਪਰਟੈਕਸਟ

ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ (ਫਾਈਲ ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ, ਹਾਈਪਰਟੈਕਸਟ ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ), ਪ੍ਰਾਈਵੇਟ ਨੈੱਟਵਰਕਸ

ਚੈਨਲ ਦੀ ਵਿਚਾਰਧਾਰਾ : ਸੰਚਾਰ ਚੈਨਲ ਕੀ ਹੁੰਦਾ ਹੈ, ਡਾਟਾ ਬਦਲੀ ਦਰ

ਸੰਚਾਰ ਮਾਧਿਅਮ : ਗਾਈਡਿਡ ਮੀਡੀਆ, ਅਨਗਾਈਡਿਡ ਮੀਡੀਆ, ਆਰ.ਐਫ ਪ੍ਰਸਾਰ

ਨੈੱਟਵਰਕਿੰਗ ਡਿਵਾਇਸ : ਹੱਬ ਅਤੇ ਮੋਡਮ

#### 4. ਲਾਈਬ੍ਰੇਰੀ ਫੰਕਸ਼ਨਜ਼

ਫੰਕਸ਼ਨ

ਸਟਰਲੇਨ ਫੰਕਸ਼ਨ ( Strlen () )

ਸਟਰੇਪੀ ਫੰਕਸ਼ਨ ( Strepy() )

ਸਟਰੀਟ ਫੰਕਸ਼ਨ ( Streat() )

ਸਟਰੈਮਪ ਫੰਕਸ਼ਨ ( Stremp() )

ਗੈਟਚਰ ਫੰਕਸ਼ਨ ( getchar() )

ਪੁਟਚਰ ਫੰਕਸ਼ਨ ( putchar() )

ਪ੍ਰਿੰਟਐਫ ਫੰਕਸ਼ਨ ( Printf() )

ਸਕੈਨਐਫ ਫੰਕਸ਼ਨ ( Scanf() )

ਕੋਸ ਫੰਕਸ਼ਨ ( Cos() )

ਐਕਸਪ ਫੰਕਸ਼ਨ ( Exp() )

ਪੋਵ ਫੰਕਸ਼ਨ ( Pow() )

ਸਕਰਟ ਫੰਕਸ਼ਨ ( Sqrt() )

ਐਫਮੋਡ ਫੰਕਸ਼ਨ ( fmod() )

ਫੇਬਸ ਫੰਕਸ਼ ( Fabs() )

ਸੀਲ ਫੰਕਸ਼ਨ ( Ceil () )



ਫਲੋਰ ਫੰਕਸ਼ਨ ( floor() )

ਇਜ਼ਲੋਅਰ ਅਤੇ ਇਜ਼ਅਪਰ ਫੰਕਸ਼ਨ ( islower() and isupper() )

ਟੂਲੋਅਰ ਅਤੇ ਟੂਅਪਰ ਫੰਕਸ਼ਨ ( tolower() ) and ( toupper ( ) )

ਫੰਕਸ਼ਨਾਂ ਦੇ ਲਾਭ

## 5. ਈ-ਗਵਰਨੈਂਸ (e-Governance)

ਈ-ਗਵਰਨੈਂਸ ਦਾ ਪ੍ਰਯੋਗ:

ਘੱਟ ਖਰਚ, ਤੇਜ਼ ਰਫ਼ਤਾਰ,

ਕਿਤੇ ਵੀ ਕਿਸੇ ਵੀ ਟਾਇਮ,

ਆਸਾਨ ਪ੍ਰਬੰਧ

ਈ-ਗਵਰਨੈਂਸ ਦੇ ਅੱਲਗ-ਅੱਲਗ ਖੇਤਰ:

ਇੰਟਰਨੈੱਟ ਬੈਂਕਿੰਗ,

ਆਨ-ਲਾਈਨ ਰੇਲਵੇ ਅਤੇ

ਹਵਾਈ ਟਿਕਟਿੰਗ, ਆਈ- ਟਿਕਟਿੰਗ, ਈ-ਟਿਕਟਿੰਗ, ਪਾਸਪੋਰਟ ਸੇਵਾਵਾਂ

ਸੁਵਿਧਾ ਸੈਂਟਰ

### ਅਗਵਾਈ ਲੀਹਾਂ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

#### ਸਮੇਸਟਰ -II

ਸਮਾਂ : 3 ਘੰਟੇ

60 : ਅੰਕ

1. ਪ੍ਰੀਖਿਆ ਲਈ ਅੰਕ ਵੰਡ ਹੇਠ ਦਰਸਾਏ ਅਨੁਸਾਰ ਹੋਗੀ :

ਸ਼ੈਕਸ਼ਨ-ਏ	ਵਾਇਵਾ-ਵੋਸ	10 ਅੰਕ
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ਸ਼ੈਕਸ਼ਨ-ਬੀ	ਪੋਗਰਾਮ ਰਿਕਾਰਡ ਫਾਇਲ	10 ਅੰਕ
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ਸ਼ੈਕਸ਼ਨ-ਸੀ	ਛੋਟੇ ਪ੍ਰੋਗਰਾਮ	16 ਅੰਕ
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ਸ਼ੈਕਸ਼ਨ-ਡੀ	ਵੱਡੇ ਪ੍ਰੋਗਰਾਮ	24 ਅੰਕ
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2. ਸ਼ੈਕਸ਼ਨ-ਏ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਤੋਂ ਪਾਠ-ਕ੍ਰਮ ਵਿੱਚੋਂ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੋ-ਦੋ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਹਿਹ ਪ੍ਰਸ਼ਨ ਅਬਜੈਕਟਵ ਟਾਇਪ ਜਾਂ ਵਿਆਖਿਆ ਦੱਸਣੀ ਜਾਂ ਕੰਪਿਊਟਰ ਦੇ ਵੱਖ-ਵੱਖ ਹਿੱਸਿਆਂ ਅਤੇ ਇਸ ਨਾਲ ਜੁੜੇ ਸਹਾਇਕਾਂ ਦੇ ਬਹੁਤ ਛੋਟੇ ਅਭਿਆਸ ਹੋਣਗੇ। 2 x 5 = 10 ਅੰਕ

3. ਸ਼ੈਕਸ਼ਨ-ਬੀ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਦਾ ਸਲਾਨਾ ਰਿਕਾਰਡ ਚੈਕ ਕੀਤਾ ਜਾਵੇਗਾ। 10 ਅੰਕ

4. ਸ਼ੈਕਸਨ-ਸੀ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਸੈਟ ਕੀਤੇ ਜਾਣਗੇ। ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਦੋ ਪ੍ਰੋਗਰਾਮ /ਪ੍ਰਸ਼ਨ ਰਨ ਕਰਨ ਦੀ ਖੁਲ੍ਹ ਹੋਵੇਗੀ। ਹਰ ਪ੍ਰੋਗਰਾਮ /ਪ੍ਰਸ਼ਨ ਅੱਠ-ਅੱਠ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ /ਪ੍ਰਸ਼ਨ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈਟਰ ਕਰਕੇ ਦੇਵੇਗਾ। 16 ਅੰਕ
5. ਸ਼ੈਕਸਨ-ਡੀ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰੋਗਰਾਮ /ਪ੍ਰਸ਼ਨ ਸੈਟ ਕੀਤੇ ਜਾਣਗੇ। ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਦੋ ਪ੍ਰੋਗਰਾਮ /ਪ੍ਰਸ਼ਨ ਰਨ ਕਰਨ ਦੀ ਖੁਲ੍ਹ ਹੋਵੇਗੀ। ਹਰ ਪ੍ਰੋਗਰਾਮ /ਪ੍ਰਸ਼ਨ 12-12 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ /ਪ੍ਰਸ਼ਨ ਲਈ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈਟਰ ਕਰਕੇ ਦੇਵੇਗਾ। 24 ਅੰਕ

## ਪਾਠ ਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

### 1. ਵਿੰਡੋ ਮੂਵੀ ਮੇਕਰ-1

ਆਡੀਓ-ਵੀਡੀਓ ਫਾਈਲ

ਪ੍ਰੋਜੈਕਟ, ਮੂਵੀ, ਕੈਪਚਰਿੰਗ, ਸਪਲਿੰਟਿੰਗ

### 2. ਵਿੰਡੋ ਮੂਵੀ ਮੇਕਰ-2

ਟਾਈਮ ਲਾਈਨ ਵਿਊ

ਪ੍ਰੋਜੈਕਟ ਨੂੰ ਚਲਾਉਣਾ

ਟੀਮਿੰਗ

ਐਡਿਟਿੰਗ

ਵੀਡੀਓ ਟਰਾਂਜਿਸ਼ਨ

ਵੀਡੀਓ ਇਫੈਕਟ

ਵੀਡੀਓ ਟਾਈਟਲ

ਵੀਡੀਓ ਕਰੈਟਿਡ

ਵੀਡੀਓ ਪ੍ਰੀਵਿਊ

### 3. ਲਾਈਬ੍ਰੇਰੀ ਫੰਕਸ਼ਨਜ਼

ਫੰਕਸ਼ਨ

ਸਟਰਲੇਨ ਫੰਕਸ਼ਨ ( Strlen () )

ਸਟਰੇਪੀ ਫੰਕਸ਼ਨ ( Strep() )

ਸਟਰੀਟ ਫੰਕਸ਼ਨ ( Streat() )

ਸਟਰੈਮਪ ਫੰਕਸ਼ਨ ( Strem() )

ਗੈਟਚਰ ਫੰਕਸ਼ਨ ( getchar() )

ਪੁਟਚਰ ਫੰਕਸ਼ਨ ( putchar() )

ਪ੍ਰਿੰਟਐਫ ਫੰਕਸ਼ਨ ( Printf() )

ਸਕੈਨਐਫ ਫੰਕਸ਼ਨ ( Scanf() )

ਕੋਸ ਫੰਕਸ਼ਨ ( Cos() )

ਐਕਸਪ ਫੰਕਸ਼ਨ ( Exp() )

ਪੋਵ ਫੰਕਸ਼ਨ ( Pow() )

ਸਕਰਟ ਫੰਕਸ਼ਨ ( Sqrt() )

ਐਫਮੋਡ ਫੰਕਸ਼ਨ ( fmod() )

ਫੇਬਸ ਫੰਕਸ਼ਨ ( Fabs() )

ਸੀਲ ਫੰਕਸ਼ਨ ( Ceil () )

ਫਲੋਰ ਫੰਕਸ਼ਨ ( floor() )

ਇਜ਼ਲੋਅਰ ਅਤੇ ਇਜ਼ਅਪਰ ਫੰਕਸ਼ਨ ( islower() and isupper() )

ਟੂਲੋਅਰ ਅਤੇ ਟੂਅਪਰ ਫੰਕਸ਼ਨ ( tolower() ) and ( toupper () )

ਫੰਕਸ਼ਨਾਂ ਦੇ ਲਾਭ

## 6. ਪੰਜਾਬੀ (ਚੋਣਵਾਂ ਵਿਸ਼ਾ)

### ਸਮੇਸਟਰ-I

ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈੱਟਰਾਂ ਅਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ

ਲਿਖਤੀ ਪੇਪਰ-55 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ-25 ਅੰਕ

ਸਮਾਂ: 2 ½ ਘੰਟੇ

ਕੁੱਲ -80 ਅੰਕ

ਪ੍ਰਸ਼ਨ:1 ਸਮੈਸਟਰ- I ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ ਉੱਤੇ ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲੇ 10 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇੱਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ।

ਪੰਜਾਬੀ -ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-2 :

(ਕਵੀ ਦੀ ਕਵਿਤਾ, ਕਵਿਤਾ ਦਾ ਕਵੀ, ਗਲਤ/ਠੀਕ, ਬਹੁ-ਚੋਣ, ਖ਼ਾਲੀ ਥਾਂਵਾਂ ਜਾਂ ਇੱਕ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)

ਆਪ-ਬੀਤੀਆਂ :

(ਸ਼੍ਰੀਜੀਵਨੀ ਅੰਸ਼ ਦੇ ਲੇਖਕ ਦਾ ਨਾਂ, ਬਹੁ-ਚੋਣ ਅਤੇ ਠੀਕ/ਗਲਤ)

ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ-2): (ਸਾਹਿਤ ਰੂਪ ਵਿੱਚੋਂ)

(ਬਹੁ-ਚੋਣ, ਖ਼ਾਲੀ ਥਾਂਵਾਂ, ਜਾਂ ਇੱਕ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)

1×10=10

ਪ੍ਰਸ਼ਨ:2 ਕਿੱਸਾ-ਕਾਵਿ ਅਤੇ ਬੀਰ ਕਾਵਿ ਵਾਲੇ ਭਾਗ ਵਿੱਚੋਂ ਤਿੰਨ ਕਾਵਿ ਟੋਟੇ ਦੇ ਕੇ ਕਿਸੇ ਦੋ ਦੀ ਪ੍ਰਸੰਗ ਸਾਹਿਤ

ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। ਹਰ ਪ੍ਰਸੰਗ ਦਾ ਇੱਕ ਅੰਕ ਅਤੇ ਵਿਆਖਿਆ ਦੇ ਚਾਰ ਅੰਕ ਹੋਣਗੇ।

5+5=10

ਪ੍ਰਸ਼ਨ:3 ਪਹਿਲੇ ਸਮੈਸਟਰ ਵਿੱਚ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-2 ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ,

ਕਿੱਸਾ-ਕਾਵਿ ਅਤੇ ਬੀਰ-ਕਾਵਿ ਨਾਲ ਸੰਬੰਧਿਤ ਪਾਠਾਂ ਅਤੇ ਪਾਠ-ਪੁਸਤਕ ਦੇ ਅਭਿਆਸ ਵਿੱਚ ਦਿੱਤੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਇੱਕ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

10

ਪ੍ਰਸ਼ਨ:4 ਆਪ-ਬੀਤੀਆਂ ਪਾਠ-ਪੁਸਤਕ ਦੇ ਪਾਠਾਂ ਅਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਉੱਤੇ ਅਧਾਰਿਤ ਪੰਜ ਛੋਟੇ ਉੱਤਰਾਂ

ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਤਿੰਨ ਦੇ ਉੱਤਰ ਲਿਖਣੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਪੰਜ ਅੰਕ ਹੋਣਗੇ।

5+5+5=15

ਪ੍ਰਸ਼ਨ:5 ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ-2) ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਕਿਸੇ ਦੋ ਸਾਹਿਤ ਰੂਪਾਂ ਦੇ ਨਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਨੋਟ

ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

10

## ਪਾਠ-ਕ੍ਰਮ

### (ੳ) ਪਾਠ-ਕ੍ਰਮ

- (1) ਕਵਿਤਾ
- (2) ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਇਤਿਹਾਸ
- (3) ਪੰਜਾਬੀ ਸ਼ੈਲੀਵਨੀ ਦੇ ਅੰਸ਼
- (4) ਸਾਹਿਤ- ਰੂਪ

### ਪਾਠ-ਕ੍ਰਮ ਦਾ ਵੇਰਵਾ

- (1) ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸੰਬੰਧਿਤ ਸਮੈਸਟਰ ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ 'ਤੇ ਅਧਾਰਿਤ ਵਸਤੂਨਿਸ਼ਠ  
(ਅਬਜੈਕਟਿਵ ਟਾਇਪ) ਹੋਵੇਗਾ।

### (2) ਕਵਿਤਾ

- (ੳ) ਕਿੱਸਾ-ਕਾਵਿ
- (ਅ) ਬੀਰ-ਕਾਵਿ

### (3) ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਇਤਿਹਾਸ

- (ੳ) ਕਿੱਸਾ-ਕਾਵਿ
- (ਅ) ਬੀਰ-ਕਾਵਿ

### (4) ਪੰਜਾਬੀ ਸ਼ੈਲੀਵਨੀ ਦੇ ਅੰਸ਼

(ਪੰਜਾਬੀ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਸ਼ੈਲੀਵਨੀਆਂ ਵਿੱਚੋਂ ਵਿਦਿਆਰਥੀ ਦੇ ਪੱਖ ਤੋਂ ਮਹੱਤਵਪੂਰਨ ਅੰਸ਼ਾਂ ਦਾ ਸੰਕਲਨ)

(ੳ) ਪ੍ਰੋ. ਪੂਰਨ ਸਿੰਘ (ਐਬਟਾਬਾਦ)

(ਅ) ਗਿਆਨੀ ਹੀਰਾ ਸਿੰਘ ਦਰਦ (ਅਖੰਡ ਪਾਠ ਕਰਾਉਣ ਦਾ ਅਪਰਾਧ)

(ੲ) ਪ੍ਰਿੰ. ਤੇਜਾ ਸਿੰਘ (1. ਮੁਢਲੀ ਅਵਸਥਾ 2. ਮਿਡਲ ਦੀ ਪੜ੍ਹਾਈ)

(ਸ) ਪ੍ਰਿੰ. ਸਾਹਿਬ ਸਿੰਘ (ਧੁੜ ਭਰੇ ਰਾਹ)

(ਹ) ਗੁਰਬਖਸ਼ ਸਿੰਘ ਪ੍ਰੀਤਲੜੀ (ਮਨੁੱਖ ਨਾਲ ਮਨੁੱਖ ਦਾ ਮੇਲ ਜਿੰਦਗੀ ਦੀ ਮਹਾਨ ਘਟਨਾ ਹੁੰਦੀ ਹੈ)

(ਕ) ਨਾਨਕ ਸਿੰਘ (ਮੇਰੀ ਜੇਲ੍ਹ ਯਾਤਰਾ)

(ਖ) ਪ੍ਰਿੰ. ਐਸ.ਐਸ.ਅਮੋਲ (ਅੰਤ ਨੂੰ ਮੈਂ ਪੜ੍ਹ ਹੀ ਗਿਆ)

(5) ਸਾਹਿਤ ਰੂਪ

(ੳ) ਕਵਿਤਾ

(ਅ) ਨਿਬੰਧ

(ੲ) ਨਾਵਲ

(ਸ) ਨਿੱਕੀ ਕਹਾਣੀ

(ਉਪਰੋਕਤ ਬਾਰੇ ਸਿਧਾਂਤਕ ਜਾਣਕਾਰੀ, ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਤੱਤ )

## ਪੰਜਾਬੀ (ਚੋਣਵਾਂ ਵਿਸ਼ਾ)

### ਸਮੈਸਟਰ-II

ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈੱਟਰਾਂ ਅਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ

ਲਿਖਤੀ ਪੇਪਰ-85 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ-35 ਅੰਕ

ਸਮਾਂ: 3ਘੰਟੇ

ਕੁੱਲ -120 ਅੰਕ

ਪ੍ਰਸ਼ਨ:1 ਸਮੈਸਟਰ-II ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ ਉੱਤੇ ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲੇ 10 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇੱਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ।

ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-2 :

(ਕਵੀ ਦੀ ਕਵਿਤਾ, ਕਵਿਤਾ ਦਾ ਕਵੀ,ਗਲਤ/ਠੀਕ, ਬਹੁ-ਚੋਣ,ਖ਼ਾਲੀ ਥਾਂਵਾਂ ਜਾਂ ਇੱਕ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)

ਆਪ-ਬੀਤੀਆਂ :

(ਸ਼੍ਰੀਜੀਵਨੀ ਅੰਸ਼ ਦੇ ਲੇਖਕ ਦਾ ਨਾਂ, ਬਹੁ-ਚੋਣ ਅਤੇ ਠੀਕ/ਗਲਤ)

ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ-2): (ਸਾਹਿਤ ਰੂਪ ਵਿੱਚ)

(ਬਹੁ-ਚੋਣ,ਖ਼ਾਲੀ ਥਾਂਵਾਂ, ਜਾਂ ਇੱਕ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ) 1×10=10

ਪ੍ਰਸ਼ਨ:2 ਆਧੁਨਿਕ-ਕਾਵਿ ਵਾਲੇ ਭਾਗ ਵਿੱਚੋਂ ਤਿੰਨ ਕਾਵਿ ਟੋਟੇ ਦੇ ਕੇ ਕਿਸੇ ਦੋ ਦੀ ਪ੍ਰਸੰਗ ਸਾਹਿਤ ਵਿਆਖਿਆ

ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। ਹਰ ਪ੍ਰਸੰਗ ਦਾ ਇੱਕ ਅੰਕ ਅਤੇ ਵਿਆਖਿਆ ਦੇ ਚਾਰ ਅੰਕ ਹੋਣਗੇ। 5+5=10

ਪ੍ਰਸ਼ਨ:3 ਕਵਿਤਾ ਭਾਗ ਦੇ ਆਧੁਨਿਕ-ਕਾਵਿ ਭਾਗ ਵਿੱਚੋਂ ਤਿੰਨ ਕਵਿਤਾਵਾਂ ਦੇ ਨਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਕੇਂਦਰੀ ਭਾਵ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5

ਪ੍ਰਸ਼ਨ:4 ਇਤਿਹਾਸ ਭਾਗ ਵਿੱਚੋਂ ਆਧੁਨਿਕ-ਕਾਵਿ ਨਾਲ ਸੰਬੰਧਿਤ ਪਾਠ-ਪੁਸਤਕ ਦੇ ਪਾਠਾਂ ਉੱਤੇ ਅਧਾਰਿਤ ਅਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਵਿੱਚ ਦਿੱਤੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਇੱਕ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 15

ਪ੍ਰਸ਼ਨ:5 ਆਪ-ਬੀਤੀਆਂ ਪਾਠ-ਪੁਸਤਕ ਦੇ ਪਾਠਾਂ ਅਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਉੱਤੇ ਅਧਾਰਿਤ ਸੱਤ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਚਾਰ ਦੇ ਉੱਤਰ ਲਿਖਣੇ ਹੋਣਗੇ।  $5+5+5+5=20$

ਪ੍ਰਸ਼ਨ:6 ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ-2) ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਕਿਸੇ ਦੋ ਸਾਹਿਤ ਰੂਪਾਂ ਦੇ ਨਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਨੋਟ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 10

ਪ੍ਰਸ਼ਨ:7 ਸਾਹਿਤ- ਬੋਧ ਭਾਗ-2 ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਦੋ ਛੰਦਾਂ, ਦੋ ਅਲੰਕਾਰਾਂ ਅਤੇ ਦੋ ਰਸਾਂ ਬਾਰੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ ਅਤੇ ਕਿਸੇ ਇੱਕ ਛੰਦ, ਇੱਕ ਅਲੰਕਾਰ ਅਤੇ ਇੱਕ ਰਸ ਬਾਰੇ ਉਦਾਹਰਨਾਂ ਸਹਿਤ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  $5+5+5=15$

## ਪਾਠਕ੍ਰਮ

### ਪਾਠ-ਕ੍ਰਮ:

- ✓ ਕਵਿਤਾ
- ✓ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਇਤਿਹਾਸ
- ✓ ਪੰਜਾਬੀ ਸ਼ੈਲੀਵਨੀ ਦੇ ਅੰਸ਼
- ✓ ਸਾਹਿਤ ਰੂਪ
- ✓ ਛੰਦ, ਅਲੰਕਾਰ, ਰਸ

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸੰਬੰਧਿਤ ਸਮੇਸਟਰ ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ 'ਤੇ ਅਧਾਰਿਤ ਵਸਤੂਨਿਸ਼ਠ (ਅਬਜੈਕਟਿਵ ਕਿਸਮ) ਦਾ ਹੋਵੇਗਾ।

### 2. ਕਵਿਤਾ

ਆਧੁਨਿਕ-ਕਾਵਿ

### 3. ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਸੰਖੇਪ ਇਤਿਹਾਸ

ਆਧੁਨਿਕ-ਕਾਵਿ

### 4. ਪੰਜਾਬੀ ਸ਼ੈਲੀਵਨੀ ਦੇ ਅੰਸ਼

(ਪੰਜਾਬੀ ਦੇ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਸ਼ੈਲੀਵਨੀਆਂ ਵਿੱਚੋਂ ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਪੱਖ ਤੋਂ ਮਹੱਤਵਪੂਰਨ ਅੰਸ਼ਾਂ ਦਾ ਸੰਕਲਨ)

- (ੳ) ਡਾ. ਮਹਿੰਦਰ ਸਿੰਘ ਰੰਧਾਵਾ (ਤਖ਼ਤ ਜਾਂ ਤਖ਼ਤਾ)
- (ਅ) ਪਿੰ. ਸੁਜਾਨ ਸਿੰਘ (ਲੜਕਪਨ)
- (ੲ) ਕਰਤਾਰ ਸਿੰਘ ਦੁੱਗਲ (ਜੁਆਨ-ਜਹਾਨ)
- (ਸ) ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ (ਮੇਰਾ ਸੋਲ੍ਹਵਾਂ ਵਰ੍ਹਾ)
- (ਹ) ਮਹਿੰਦਰ ਸਿੰਘ ਜੋਸ਼ੀ (ਲੋੜੀਂਦਾ ਗੁੜ)
- (ਕ) ਸੰਤੋਖ ਸਿੰਘ ਧੀਰ (1. ਜਨਮ 2. ਮਾਤਾ-ਪਿਤਾ)
- (ਖ) ਡਾ. ਦਲੀਪ ਕੌਰ ਟਿਵਾਣਾ (ਬਾਪੂ ਜੀ ਦਾ ਇੱਕ ਹੋਰ ਵਿਆਹ)
- (ਗ) ਅਜੀਤ ਕੌਰ (ਮੇਰਾ ਨਿੱਕਾ ਜਿਹਾ ਘਰ)
- (ਘ) ਡਾ. ਸੋਹਿੰਦਰ ਸਿੰਘ ਵਣਜਾਰਾ ਬੇਦੀ (ਆਪਣੀ ਸੋਚ ਦੇ ਗਹਿਰੇ ਸਾਏ)

## 5. ਸਾਹਿਤ-ਰੂਪ

ਇਕਾਂਗੀ, ਜੀਵਨੀ, ਸੈਂਜੀਵਨੀ, ਨਾਟਕ ਤੇ ਸ਼ਰਨਾਮੇ ਬਾਰੇ ਸਿਧਾਂਤਕ ਜਾਣਕਾਰੀ, ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਤੱਤ ।

## 6. ਛੰਦ- ਦੋਹਰਾ, ਕੋਰੜਾ, ਕਬਿੱਤ, ਬੈਂਤ, ਦਵਈਆ, ਚੌਪਈ

**ਅਲੰਕਾਰ-** ਅਨੁਪ੍ਰਾਸ, ਉਪਮਾ, ਰੂਪਕ, ਦ੍ਰਿਸ਼ਟਾਂਤ, ਅਤਿਕਥਨੀ

**ਰਸ-** ਸ਼ਿੰਗਾਰ, ਹਾਸ, ਕਰੁਣਾ, ਰੌਦਰ, ਬੀਰ, ਭਿਆਨਕ, ਬੀਭਤਸ, ਅਦਭੁਤ ਅਤੇ ਸ਼ਾਂਤ ਰਸ।

## ਨਿਰਧਾਰਿਤ ਪਾਠ-ਪੁਸਤਕਾਂ:

- (1) ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) (ਭਾਗ-2)  
ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ ਮੁਹਾਲੀ।
- (2) ਆਪ-ਬੀਤੀਆਂ ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ ਮੁਹਾਲੀ।
- (3) ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ - 2)  
ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ ਮੁਹਾਲੀ।

## 7. HINDI









## 8. ENGLISH ELECTIVE

### SEMESTER-I

Time: 2½ hours

Theory Max. :55 Marks

CCE/Int.Asst:25 Marks

Total : 80 Marks

### STRUCTURE OF QUESTION PAPER

**Objective type question no. 1 will be compulsory. 13 marks**

- It will carry 13 marks and consist of 13 questions of 1 mark each.
- Objective type question will cover the whole syllabus prescribed for semester-I

Structure of objective type question: 10 questions from grammar portion will be asked.

**APPLIED GRAMMAR 10 marks**

Do as directed type questions covering the following items:

- |  |         |
|--|---------|
| I. Change of Voice   | 2 marks |
| II. Change of Narration  | 2 marks |
| III. Combining two simple sentences into one using linkers etc.                        | 2 marks |
| IV. Use of Modals  | 2 marks |
| V. Transformation of sentences (use of gerunds, to-infinitive, participle, adverbials) | 2 marks |

**Note:** The above question will be based as far as possible, on the text books.

**3 Questions 1 each from text will be asked 3 marks**

- |                          |        |
|--------------------------|--------|
| 1. Dear to All the Muses | 1 mark |
| 2. The Literary Petals   | 1 mark |
| 3. Select One Act Plays  | 1 mark |

### PART-A 18 marks

**A) DEAR TO ALL THE MUSES** (an anthology of contemporary prose) **9 marks**

Text for detailed study:

- |   |         |
|---|---------|
| I. Comprehension of a passage :   | 6 marks |
| Comprehension to be tested with the help of the following techniques :  |         |
| (i) Two short answer questions  | 2 marks |
| (ii) Matching exercises (Two words to be matched out of four words)   | 2 marks |
| (iii) Fill in the blanks (Two sentences)  | 1 mark  |
| (iv) Finding one word for a given expression from the passage.  | 1 mark  |
| II. 1 out of 2 short answer type questions based on the contents of different lessons (to be answered in 50-60 words each). | 1×3=3   |

- (B) THE LITERARY PETALS (Text for detailed study) 9 marks**
- III. (a) 2 short answer type questions (to be answered in 25-30 words each) 1 from story and 1 from poem as suggested at the end of each lesson, with internal choice in each question.  $2 \times 1\frac{1}{2} = 3$  marks
- (b) One essay type (long answer type) comprehension question (with internal choice) as suggested in the exercises at the end of each story. 3 marks
- IV. Explanation with reference to the context (POEMS ONLY) of a given stanza/lines.

OR

A question on summary/substance/development of thought etc. of a poem (with internal choice) 3 marks

### PART-B

- 1. COMPOSITION & VOCABULARY 15 marks**
- (i) Paragraph writing / extended composition. 5 marks
- (ii) Vocabulary. 5 marks

**Note:** Vocabulary question will be based on the exercises given in the text books meant for detailed study:

- (i) The Literary Petals
- (ii) Dear to All the Muses

- 2. TRANSLATION 5 Marks**

From vernacular into English

A small running passage of about 5/6 sentences.

**Note:** A special question in lieu of translation for foreign students:

Developing a paragraph through a given salutation (with internal choice)

- (C) SELECT ONE-ACT PLAYS (Text for non-detailed study) 9 Marks**
- (a) Explanation with reference to the context. 3 marks
- (b) Character - Sketch. 3 marks
- (c) Question on theme incident / episode etc. 3 marks

## SYLLABUS- SEMESTER-I

### PART-A

#### DEAR TO ALL THE MUSES.

##### LESSON

1. The Horse.
2. Warrior against Weeds.

3. A Most Forgiving Ape.
4. A Young Turkish Catastrophe.
5. A Tiny Sanctuary.
6. Mano Majra.

**THE LITERARY PETALS:**

**LESSON:**

1. Hind ki Chadar Sri Guru Teg Bahadur
2. Border Guards (Poem)
3. My Heart Leaps when I Behold (Poem)
4. The Gambling Match
5. The Quality of Mercy (Poem)
6. The Fancy Dress Show (Poem)
7. The Eternal Why
8. What Though the Field be Lost (Poem)
9. The Song of India (Poem).
10. After Twenty Years

**SELECT ONE-ACT PLAYS: The whole book will be covered in Semester I.**

**PART-B**

**COMPOSITION, VOCABULARY, APPLIED GRAMMAR**

Paragraph Writing/ Extended Composition.

Translation : 1 Paragraph from Hindi/Punjabi to English..

**APPLIED GRAMMAR:** Do as directed type questions covering the following items (i) Change of narration.

- (ii) Change of Voice.
- (iii) Joining two simple sentences into one using Linkers etc.
- (iv) Use of Modals.
- (v) Transformation of Sentences. (Use of gerunds, Infinities, Participles` adverbials)

**Note: Applied Grammar will be covered in Objective type question.**

**SEMESTER -II**

**Time: 3 hours**

**Theory Max.: 85 Marks  
CCE/Int. Asst:35 Marks  
Total : 120 Marks**

**STRUCTURE OF QUESTION PAPER**

Objective type question no. 1 will be compulsory. **16 marks**

- It will carry 16 marks and consist of 16 questions of 1 mark each.
- Objective type question will cover the whole syllabus prescribed for semester II

Structure of objective type question: 10 questions from grammar portion will be asked.

**APPLIED GRAMMAR**

**10 marks**

Do as directed type questions covering the following items:

- I Change of Narration 2 marks
- II. Change of Voice 2 marks
- III. Combining two simple sentences into one using linkers etc. 2 marks
- IV. Use of Modals 2 marks
- V. Transformation of sentences(use of gerunds, to-infinitive, participle, adverbials) 2 marks

**Note:** The above question will be based as far as possible, on the text books.

6 Questions 2 each from text will be asked-

**6 marks**

- 1. Dear to All the Muses 2 marks
- 2. The Literary Petals 2 marks
- 3. Pride and Prejudice 2 marks

**PART-A**

**30 marks**

**A) DEAR TO ALL THE MUSES** (an anthology of contemporary prose) **15 marks**

Text for detailed study:

- I. Comprehension of a passage : 9 marks  
Comprehension to be tested with the help of the following techniques:
  - (i) Three short answer questions 3 marks
  - (ii) Matching exercises (Three words to be matched out of four words) 3 marks
  - (iii) Fill in the blanks (Two sentences) 2 marks
  - (iv) Finding one word for a given expression from the passage. 1 mark
- (II) 3 out of 5 short answer type questions based on the contents of different lessons (to be answered in 50-60 words each). 3×2=6

**(B) THE LITERARY PETALS (Text for detailed study) 15 marks**

- (III) (a) 4 short answer type questions (to be answered in 25-30 words each) 2 from stories and 2 from poems as suggested at the end of each lesson, with internal choice in each question.  
4×1 ½ =6 marks
- (b) One essay type (long answer type) comprehension question (with internal choice) as suggested in the exercises at the end of each story. 5 marks

- (IV) Explanation with reference to the context (POEMS ONLY) of a given stanza /lines. OR

A question on summary/substance/development of thought etc. of a poem (with internal choice) 4 marks

### **PART-B**

**1. COMPOSITION & VOCABULARY 24 marks**

(i) Paragraph writing / extended composition. 8 marks

(ii) Vocabulary. 8 marks

**Note:** Vocabulary question will be based on the exercises given in the text books meant for detailed study:

(i) The Literary Petals.

(ii) Dear to All the Muses.

**2. TRANSLATION 8 marks**

From Vernacular into English

A small running passage of about 7/8 sentences.

**Note:** A special question in lieu of translation for foreign students:

Developing a paragraph through a given salutation (with internal choice)

**Novel: Pride and Prejudice 15 marks**

(a) Character Sketch 8 marks

(b) Question on theme, incident/episode 7 marks

**The whole novel will be taught in Semester-II**

### **SYLLABUS PART-A**

#### **DEAR TO ALL THE MUSES:**

LESSON:

7. Jamaican Fragment
8. The Heritage of India
9. Gold in the North
10. My Greatest Olympic Prize
11. The Green Revolution
12. The Snob
13. Most Dear to All the Muses
14. The Case For the Defence
15. On My Seventieth Birthday



## **THE LITERARY PETALS**

### **LESSON**

11. The Tree Fell down (Poem)
12. The World Today is Wild with the Delirium of Hatred (Poem)
13. Attacked by Pit Bulls
14. Slave ? No Master (Poem)
15. The Unrest of Desire (Poem)
16. The Boy who Broke the Bank
17. Still Life (Poem)
18. Is This The End? (Poem)
19. The Conjuror's Revenge
20. Guru (Poem)
21. A River Tern on the Ganga (Poem)
22. The Ant and the Grasshopper
23. A Psalm of Life (Poem)
24. Hymn of Swaraaj (Poem)

### **Novel: Pride & Prejudice in Semester II**

### **COMPOSITION, VOCABULARY, APPLIED GRAMMAR.**

Paragraph Writing/ Extended Composition

Translation: 1 Paragraph from PUNJABI/ HINDI to ENGLISH.

**APPLIED GRAMMAR: Do as directed type questions covering the following items:**

- (i) Change of Narration
- (ii) Change of Voice
- (iii) Joining two Simple Sentences into one using Linkers etc.
- (iv) Use of Modals
- (v) Transformation of Sentences (Use of gerunds, Infinites, Participles, adverbials)

**NOTE: Applied Grammar will be covered in Objective type question.**

## 9. URDU



## 10. SANSKRIT





## **11. ARABIC**





## **12. PERSIAN**



## **13. FRENCH SEMESTER - I**

**Time : 2<sup>1</sup>/<sub>2</sub> Hrs**

**Theory Paper : 55 Marks**

**Internal Assessment Max. :25 Marks**

**Total : 80 Marks**

### **THEORY**

1. Ten (10) multi-choice question on general topic (civilization, grammar, vocabulary...) on lesson 1 to 13 of the text book to be asked and answered in French. Students are required to attempt all 10 questions. Each question will carry 1 marks. 10 Marks
2. Fifteen (15) Brief questions pertaining on lesson 1 to 13 of the text books to be asked and answered in French. Students are required to attempt any 10 questions. Each question will carry 1 marks. 10 Marks
3. Making of sentences in French with idiomatic expressions occurring in the text, 10 expression will be asked. Students are required to attempt any 5. 5 Marks
4. Questions on applied grammar based on the prescribed text (Refer of pages 252-253) of the prescribed text. 5 Marks
5. Translation from English, Hindi, Punjabi or Urdu to French of an unseen passage of 10 short sentences. 10 Marks
6. Translation from French into English, Hindi, Punjabi or Urdu of an unseen passage of 10 short sentences. 5 Marks
7. Composition of an essay of about 200 words based on the vocabulary of text book. 10 Marks

"Le francais et la Vie II"

Author-G, MAUGER/BRUEZIERE, Publication Hachette

Course of Reading:

Lesson 1 to 15

## **SEMESTER II**

**Time : 3 Hrs**

**Oral Paper**

**Theory paper : 65 Marks**

**CCE/Internal Assessment : 30 Marks**

**Time : 9 minutes**

**: 25 Marks**

**Total :120 Marks**

### **THEORY**

1. Ten (10) multi-choice question on general topic (civilization, grammar, vocabulary...) on lesson 1 to 13 of the text book to asked and answered in French. Students are required to attempt all 10 questions. Each question will carry 1 marks. 10 Marks

2. Fifteen(15) Brief questions pertaining on lesson 1 to 13 of the text books to asked and answered in French. Students are required to attempt any 10 questions. Each question will carry 1 marks. 10 Marks
3. Making of sentences in French with idiomatic expressions occurring in the text, fifteen (15) expression will be asked. Students are required to attempt any 10 questions. 15 Marks
4. Questions on applied grammar based on the prescribed text (Refer of pages 252-253) of the prescribed text. 10 Marks
5. Translation from English, Hindi, Punjabi or Urdu to French of an unseen passage of 10 short sentences. 5 Marks
6. Translation from French into English, Hindi, Punjabi or Urdu of an unseen passage of 10 short sentences. 5 Marks
7. Composition of an essay of about 200 words based on the vocabulary of text Book. 10 Marks

### **ORAL**

**Note:** A group of 20 students will be examined in a 3 hours session.

1. Dictation from the prescribed text. 10 Marks
2. Reading a passage in French from the text and putting question on it and some general questions to be asked. 10 Marks
3. Self Introduction 5 Marks

"Le francais et la Vie II"

Author-G, MAUGER/BRUEZIERE, Publication Hachette

Course of Reading:

Lesson 16 to 26

## **14. GERMAN**

### **SEMESTER-I**

**Time: 2<sup>1</sup>/<sub>2</sub>Hrs**

**Theory Max.: 55 Marks**  
**CCE/Int. Ass. : 25 Marks**  
**Total : 80 Marks**

**Note : The question paper will be set in German.**

1. Ten (10) Objective type questions (True/False, Multiple Choice, Jumbled words). 1 x 10 = 10
2. Comprehension of an unseen passage in German (One out of Two)  
 Five questions to be asked and answered in German (Attempt 5 out of 7)  
5x 2 = 10

3. Translation of an unseen text/texts from German into Hindi/Punjabi, English or Urdu. 5
4. Translation of an unseen text/texts from English, Hindi, Punjabi, Urdu into German (Meaning of unknown words can also be asked) 5
5. Personal Letters of about 40 words with internal choice. 10
6. Question of applied grammar based on the prescribed text book. 15

### **Text Book**

"Tangram a ktull Z "(Kursbuch + Arbeitsbuch)" by Hueber. Niveau A2/ 1.

**Note :** 1st Semester paper will be set from Modul 1 (lessons 1 to 3).

## **SEMESTER-II**

**Time Theory : 3 Hrs**

**Theory: 65 Marks**

**CCE/Internal assessment:30 Marks**

**Oral Paper**

**Practical : 25 Marks**

**Total : 120 Marks**

**Note : The question paper will be set in German.**

1. 10 objective type Questions (True/False, One word answer, Multiple Choice etc.) 1 x 10 = 10
2. Question of applied grammar based on the prescribed text book. 15
3. Comprehension of an unseen passage in German (Attempt One out of Two Five questions to be asked and answered in German (Attempt 5 out of 7) 5x 2 = 10
4. Translation of unseen text/texts from German into Hindi/Punjabi, English or Urdu. (Meanings of inknownd words can also e asked) 10 Marks
5. Translations of unseen text/texts from English, Hindi, Punjabi, Urdu into German (Meaning of unknown words can also be asked) 10
6. Write an essay of about 150 words on the general routine topics. 10

### **Text Book**

"Tangram Aktull 3<sup>rd</sup> "(Kursbuch + Arbeitsbuch) Hueber (Niveau A2/2).

**Note :** IInd Semester paper will be set from A2/2 Book Lessons 5 to 8.

## **ORAL PAPER**

**Note : A Group of 20 students will be examined by the examiner in a three hours sessions.**

1. Reading of a passage or an extract 3 from the text book. 10
2. Topics will be given to the students at the tirne of exam (Oral). They will be divided into two groups and discuss about the given topic and speak give

positive as well negative statements and at last come to some conclusion.  
For Example : "House Work" : All the members should contribute or it is only Mother's duty. 10

3. Self Introduction : For example : Name, age, profession, place of living, family. 5

## **15. RUSSIAN SEMESTER-I**

**Time: 2½ Hrs**

**Theory : 55 Marks  
CCE/Internal assessment: 25 Marks  
Total : 80 Marks**

**Note : The question paper will be set in Russian**

1. 10 Objective type questions (True/False, One word answer, Multiple choice etc.) 1 x 10 = 10
2. Practical Grammar (Attempt 5 questions out of 10) 5 x 5 = 25
  - (i) The numerals : their classification, declension -Pages 191- 199,
  - (ii) The verb, verb aspect, mood -Pages 207,213, 251, 257
- 3 Translation of an unseen passage (Attempt 1 out of 2) or sentences (Attempt 10 out of 15) from Russian into Hindi/English/Punjabi/Urdu (140 to 150 words). 10
4. Translation of an unseen passage (Attempt 1 out of 2) or sentences (Attempt 10 out of 15) from English/Hindi/Punjabi/Urdu into Russian concerned with the above grammar (90 to 100 words). 10

### **Book Prescribed**

1. "Basic Russian" by G. Mukherjee, (2nd edition, 1979) Published by Mac Millan & Co., New Delhi (Lessons 2 to 14)  
'Russian' by I.M. Pulkina , E Zakhova -Nekrasova "Russky Yazyk" available at People's Publishing House, Rani Jhansi, New Delhi, 2nd Edition (Pages Mentioned Above)

### **Book Recommended for Consultation**

1. 'Rusi Vyakarn Ki Sankshipat Vyakhya' by I.M. Pulkina, Videshi Bhasha Prakashan Grih, Moscow.

### **Books Recommended for Additional reading**

1. 'A Chrestomathy of Russian Literature' by C. N. Chakravati and N. S. Burlakoy, Jawarharlal Nehru University, New Delhi.
2. 'Russian as we speak it' by S. Khavronina, Foreign Languages publishing House, Moscow.

**Note :** The question paper should not include words or constructions which have not been covered in the prescribed texts. However, if it is absolutely necessary to give new words or construction, then they should be given

with translation into English/Punjabi/Hindi/Urdu. There should not be in all given five new words/constructions in one question paper.

## SEMESTER-II

**Time : 3 Hrs**

**Theory : 65 Marks**  
**CCE/ Internal Assessment : 30 Marks**

**Practicals : 25 Marks**

**Total : 120 Marks**

**Note: The question paper will be set in Russian.**

1. 10 Objective type questions (True/False, One word answer, Multiple choices etc.) 10
2. Grammar (Attempt 5 questions out of 8) 25
  - (i) The participle -Pages 364-368
  - (ii) The verbal adverb -Pages -386 -391
3. Translation of an unseen passage (Attempt 1 out of 2) or sentences (Attempt 15 out of 20) from Russian into Hindi/English/Punjabi/Urdu. 15
4. Translation of an unseen passage(Attempt 1 out of 2) or sentences (Attempt 15 out of 20) from English/Hindi/Punjabi/Urdu into Russian.15

### **Book Prescribed**

2. "Basic Russian" by G. Mukherjee, (2nd edition, 1979) Published by Mac Millian & Co., New Delhi (Lesson 15 to 33)  
'Russia'n' by I.M. Pulkina, E. Zakhova-Nekrasova "Russky Yazyk" available at People's Publishing House, Rani Jhansi, New Delhi, 2nd Edition (Pages Mentioned Above)

### **Book Recommended for Consultation**

2. 'Rusi Vyakhya Ki Sankshipat Vyakhya' by I.M. Pulkina, Videshi Bhasha Prakashan Grih, Moscow.

### **Books Recommended for Additional reading**

3. 'A Chrestomathy of Russian Literature' by C.N. Chakravati and N.S. Burlakoy, Jawarharlal Nehru University, New Delhi.
4. 'Russian as we speak it' by S. Skhavronina, Foreign Languages publishing Hõuse Moscow.

**Note :** The question paper should not include words or constructions which have not been covered in the prescribed texts. However, if it absolutely necessary to give new words or construction, then they should be given with translation into English/Punjabi/Hindi/Urdu. There should not be in all given five new words/constructions in one question paper.

## ORAL PAPER

1. Reading of a passage or a extract 3 from the text book. 10

2. Topics will be given to the students at the time of exam (Oral). They will be divided into two groups and discuss about the given topic and speak give positive as well negative statements and at last come to some conclusion. 10
3. Self Introduction : For example : Name, age, profession, place of living, family. 5

## **16. KOREAN SEMESTER-I**

**Time : 2<sup>1</sup>/<sub>2</sub> Hrs**

**Theory: 55 Marks  
CCE/Internal Assessment : 25 Marks  
Total : 80 Marks**

### **THEORY**

**Note: The question paper will be set in Korean.**

1. Ten(10) Objective type question (True/False, One word answer, Multiple choice etc.) (1 × 10 = 10)
2. Question of applied grammar based on the prescribed text book. 10 Marks
3. Making of sentences in Korean with the following expression. 5 Marks
4. Comprehension of unseen passage in Korean. Five question to be asked and answered in Korean. (2 × 5 = 10)
5. Translation of an unseen passage or sentences from Korean into English. 5 Marks
6. Translation of an unseen passage or sentences from English into Korean. 5 Marks
7. Composition of an essay of about 200 words based on the vocabulary of text Book. 10 Marks

Text book prescribed  
Korean III By Sang-Oak Lee  
Publication HOLLIM

## **SEMESTER-II**

**Time : 3 Hrs  
Oral Paper**

**Theory :65 Marks  
CCE/Internal Assessment :25 Marks  
Time : 9 Minutes      Practical :30 Marks  
Total : 120 Marks**

### **THEORY**

**Note: The question paper will be set in Korean.**

1. 10 Objective type question (True/False, One word answer, Multiple choice etc.) (1 × 10 = 10)
2. Question of applied grammar based on the prescribed text book. 10 Marks
3. Making of sentences in Korean with the following expression. 5 Marks



4. Comprehension of unseen passage in Korean. Five question to be asked and answered in Korean. (2 × 5 = 10)
5. Translation of an unseen passage or sentences from Korean into English. 5 Marks
6. Translation of an unseen passage or sentences from English into Korean. 5 Marks
7. Composition of an essay of about 200 words based on the vocabulary of text Book. 20 Marks

## ORAL

**Note: A group of 20 students will be examined in a 3 hours session.**

1. Reading of a passage from the text book. 10 Marks
2. Question in Korean based on the passage read above. 10 Marks
3. Simple conversation. (Question regarding name, age, family, school or daily routine may be asked). 5 Marks

Text book prescribed

Korean HI By Sang Oak Lee

Publication HOLLIM

## 17. ਇਤਿਹਾਸ

### ਸਮੇਸਟਰ-I

ਸਮਾਂ- 2<sup>1/2</sup> ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 55 ਅੰਕ

ਸੀ.ਸੀ.ਈ : 25 ਅੰਕ

ਕੁੱਲ ਅੰਕ : 80 ਅੰਕ

### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਤਿੰਨ ਹਿੱਸਿਆਂ ਭਾਗ 'ੳ', 'ਅ' ਅਤੇ 'ੲ' ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ। ਸਾਰੇ ਭਾਗ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
2. ਭਾਗ 'ੳ' ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਸਿਲੇਬਸ ਵਿੱਚੋਂ 'ਪੰਜਾਬ ਦੀਆਂ ਭੂਗੋਲਿਕ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਇਸ ਦੇ ਇਤਿਹਾਸ ਤੇ ਉਨ੍ਹਾਂ ਦਾ ਪ੍ਰਭਾਵ' ਤੋਂ 'ਸ਼੍ਰੀ ਗੁਰੂ ਅੰਗਦ ਦੇਵ ਜੀ, ਸ਼੍ਰੀ ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ ਅਤੇ ਸ਼੍ਰੀ ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ ਦੇ ਅਧੀਨ ਸਿੱਖ ਧਰਮ ਦਾ ਵਿਕਾਸ' ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।
3. ਭਾਗ 'ਅ' ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਸਿਲੇਬਸ ਵਿੱਚੋਂ 'ਸ਼੍ਰੀ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀ ਸ਼ਹੀਦੀ ਤੋਂ ਬੰਦਾ ਸਿੰਘ ਬਹਾਦਰ ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।

4. ਭਾਗ 'ੳ' ਵਿੱਚ ਸ੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੀਆਂ ਮਹੱਤਵਪੂਰਨ ਲੜਾਈਆਂ ਅਤੇ ਬੰਦਾ ਸਿੰਘ ਬਹਾਦਰ ਦੀਆਂ ਲੜਾਈਆਂ ਸਬੰਧੀ ਦੋ ਨਕਸ਼ੇ ਹੋਣਗੇ।
5. ਕੁਲ 19 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਅੰਕ ਉਸਦੇ ਸਾਹਮਣੇ ਦਿੱਤੇ ਹੋਣਗੇ।
6. ਭਾਗ ਓ ਅਤੇ ਅ ਵਿੱਚੋਂ 9-9 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ ਅਤੇ ਭਾਗ-ੳ ਵਿੱਚੋਂ ਨਕਸ਼ੇ ਦਾ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੋਵੇਗਾ।
7. ਭਾਗ ਓ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ: 1 ਤੋਂ 5 ਅਤੇ ਭਾਗ ਅ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ 10 ਤੋਂ 14 ਤੱਕ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 1 ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 10-15 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।  $10 \times 1 = 10$
8. ਭਾਗ ਓ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ 6 ਤੋਂ 8 ਅਤੇ ਭਾਗ ਅ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ : 15 ਤੋਂ 17 ਤੱਕ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 3 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 55-65 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।  $3 \times 6 = 18$
9. ਭਾਗ ਓ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ: 9 ਅਤੇ ਭਾਗ ਅ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ: 18 ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 8 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 200-250 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਨ੍ਹਾਂ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ। ਪੇਪਰ ਸੈਟਰ ਇੱਕ ਚੈਪਟਰ ਵਿੱਚੋਂ ਇੱਕ ਤੋਂ ਵੱਧ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਨਹੀਂ ਕਰੇਗਾ।  $8 \times 2 = 16$
10. ਭਾਗ ੳ ਵਿੱਚੋਂ ਨਕਸ਼ੇ ਦਾ ਪ੍ਰਸ਼ਨ ਨੰ: 19 ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ, ਜਿਸ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਦਿੱਤੀ ਜਾਵੇਗੀ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਉਪ-ਭਾਗ ਓ ਅਤੇ ਅ ਹੋਣਗੇ। ਉਪ-ਭਾਗ ਓ ਵਿੱਚ ਮਾਨਚਿੱਤਰ ਭਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ ਅਤੇ ਇਸ ਦੇ 6 ਅੰਕ ਹੋਣਗੇ। ਉਪ-ਭਾਗ ਅ ਵਿੱਚ ਮਾਨਚਿੱਤਰ ਵਿੱਚ ਭਰੇ ਹੋਏ ਸਥਾਨਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ ਅਤੇ ਜਿਸ ਦੇ 5 ਅੰਕ ਹੋਣਗੇ। ਉਪ-ਭਾਗ ਅ ਦਾ ਉੱਤਰ ਲਗ-ਪਗ 90-100 ਸ਼ਬਦਾਂ ਵਿੱਚ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ।  $6 + 5 = 11$
11. ਕੇਵਲ ਨੇਤਰਹੀਣ ਵਿਦਿਆਰਥੀਆਂ ਲਈ : (ਨੇਤਰਹੀਣ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਕਸ਼ੇ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਦੀ ਥਾਂ ਤੇ ਇੱਥੇ ਵੱਖਰਾ ਪ੍ਰਸ਼ਨ ਕਰਨ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਉਪ-ਭਾਗ ਓ ਅਤੇ ਅ 6 ਅਤੇ 5 ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਦਿੱਤੀ ਜਾਵੇਗੀ।

## ਪਾਠ ਕ੍ਰਮ ਦੀ ਵੰਡ

### ਭਾਗ-ਓ

1. ਪੰਜਾਬ ਦੀਆਂ ਭੂਗੋਲਿਕ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਇਸ ਦੇ ਇਤਿਹਾਸ ਤੇ ਉਨ੍ਹਾਂ ਦਾ ਪ੍ਰਭਾਵ।
2. ਪੰਜਾਬ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸੋਮੇ।
3. 16 ਵੀਂ ਸਦੀ ਦੇ ਸ਼ੁਰੂ ਵਿੱਚ ਪੰਜਾਬ ਦੀ ਰਾਜਨੀਤਿਕ, ਸਮਾਜਿਕ ਅਤੇ ਆਰਥਿਕ ਦਸ਼ਾ।
4. ਸ੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦਾ ਜੀਵਨ ਅਤੇ ਸਿੱਖਿਆਵਾਂ।

5. ਸ਼੍ਰੀ ਗੁਰੂ ਅੰਗਦ ਦੇਵ ਜੀ, ਸ਼੍ਰੀ ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ ਅਤੇ ਸ਼੍ਰੀ ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ ਦੇ ਅਧੀਨ ਸਿੱਖ ਧਰਮ ਦਾ ਵਿਕਾਸ।

#### ਭਾਗ-ਅ

6. ਸ਼੍ਰੀ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀ ਸ਼ਹੀਦੀ।

7. ਸ਼੍ਰੀ ਗੁਰੂ ਹਰਗੋਬਿੰਦ ਸਾਹਿਬ ਜੀ ਅਤੇ ਸਿੱਖ ਧਰਮ ਵਿੱਚ ਪਰਿਵਰਤਨ।

8. ਸ਼੍ਰੀ ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ ਜੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀ ਸ਼ਹੀਦੀ।

9. ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ, ਖਾਲਸਾ ਦੀ ਸਥਾਪਨਾ, ਉਨ੍ਹਾਂ ਦੇ ਯੁੱਧ ਅਤੇ ਉਨ੍ਹਾਂ ਦਾ ਵਿਅਕਤੀਤਵ।

10. ਬੰਦਾ ਸਿੰਘ ਬਹਾਦਰ।

#### ਭਾਗ-ਬ

ਇਸ ਭਾਗ ਬ ਵਿੱਚੋਂ ਇੱਕ ਨਕਸ਼ੇ ਦਾ ਪ੍ਰਸ਼ਨ ਕਰਨ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਨਕਸ਼ੇ ਦਾ ਪ੍ਰਸ਼ਨ ਹੇਠ ਲਿਖੇ ਨਕਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਵੇਗਾ।

1. ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੀਆਂ ਲੜਾਈਆਂ।

2. ਬੰਦਾ ਸਿੰਘ ਬਹਾਦਰ ਦੀਆਂ ਮਹੱਤਵਪੂਰਨ ਲੜਾਈਆਂ।

## ਇਤਿਹਾਸ

### ਸਮੈਸਟਰ-II

ਸਮਾਂ- 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 85 ਅੰਕ

ਸੀ.ਸੀ.ਈ/ ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 35 ਅੰਕ

ਕੁੱਲ ਅੰਕ : 120 ਅੰਕ

#### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਤਿੰਨ ਹਿੱਸਿਆਂ ਭਾਗ ਓ, ਅ ਅਤੇ ਬ ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ। ਸਾਰੇ ਭਾਗ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
2. ਭਾਗ ਓ ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਸਿਲੇਬਸ ਵਿੱਚੋਂ 'ਅਬਦੁੱਸ ਸਮਦ ਖਾਂ, ਜਕਰੀਆਂ ਖਾਂ ਅਤੇ ਮੀਰ ਮੰਨੂੰ ਉਨ੍ਹਾਂ ਦੇ ਸਿੱਖਾਂ ਨਾਨ ਸਬੰਧ ਲੈ ਕੇ ਸਿੱਖ ਮਿਸਲਾਂ ਦੀ ਉਤਪੱਤੀ ਅਤੇ ਵਿਕਾਸ ਅਤੇ ਉਨ੍ਹਾਂ ਦੇ ਸੰਗਠਨ ਦਾ ਸਰੂਪ' ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।
3. ਭਾਗ ਅ ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਸਿਲੇਬਸ ਵਿੱਚੋਂ 'ਰਣਜੀਤ ਸਿੰਘ ਦਾ ਜੀਵਨ' ਅਤੇ ਜਿੱਤਾਂ ਤੋਂ ਲੈ ਕੇ ਦੂਜਾ ਐਂਗਲੋ-ਸਿੱਖ ਯੁੱਧ : ਕਾਰਨ ਅਤੇ ਨਤੀਜੇ ਅਤੇ 'ਪੰਜਾਬ ਦਾ ਸੰਮੇਲਨ' ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।
4. ਭਾਗ ਬ ਵਿੱਚ ਤਿੰਨ ਨਕਸ਼ੇ ਹੋਣਗੇ। ਰਣਜੀਤ ਸਿੰਘ ਦਾ ਸਮਰਾਜ, ਪਹਿਲਾ ਐਂਗਲੋ- ਸਿੱਖ ਯੁੱਧ ਅਤੇ ਦੂਜਾ ਐਂਗਲੋ- ਸਿੱਖ ਯੁੱਧ।
5. ਕੁਲ 21 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਅੰਕ ਉਸਦੇ ਸਾਹਮਣੇ ਲਿਖੇ ਹੋਣਗੇ।

6. ਭਾਗ ਓ ਅਤੇ ਅ ਵਿੱਚੋਂ 10-10 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਭਾਗ-ੲ ਵਿੱਚੋਂ ਨਕਸ਼ੇ ਦਾ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੋਵੇਗਾ।
7. ਭਾਗ ਓ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ: 1 ਤੋਂ 5 ਅਤੇ ਭਾਗ ਅ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ: 11 ਤੋਂ 15 ਤੱਕ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 1 ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 10-15 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।  $1 \times 10 = 10$
8. ਭਾਗ ਓ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ 6 ਤੋਂ 9 ਅਤੇ ਭਾਗ ਅ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ : 16 ਤੋਂ 19 ਤੱਕ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 5 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 75-80 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।  $5 \times 8 = 40$
9. ਭਾਗ ਓ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ: 10 ਅਤੇ ਭਾਗ ਅ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ ਨੰ: 20 ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 10 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 250-300 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਨ੍ਹਾਂ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ। ਪੇਪਰ ਸੈਟਰ ਇੱਕ ਚੈਪਟਰ ਵਿੱਚੋਂ ਇੱਕ ਤੋਂ ਵੱਧ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਨਹੀਂ ਕਰੇਗਾ।  $10 \times 2 = 20$
10. ਭਾਗ ੲ ਵਿੱਚੋਂ ਨਕਸ਼ੇ ਦਾ ਪ੍ਰਸ਼ਨ ਨੰ: 21 ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ, ਜਿਸ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਦਿੱਤੀ ਜਾਵੇਗੀ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ 15 ਅੰਕ ਹੋਣਗੇ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਉਪ-ਭਾਗ ਓ ਅਤੇ ਅ ਹੋਣਗੇ। ਉਪ-ਭਾਗ ਓ ਵਿੱਚ ਮਾਨ ਚਿੱਤਰ ਭਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। ਇਸ ਦੇ 8 ਅੰਕ ਹੋਣਗੇ। ਉਪ-ਭਾਗ ਅ ਵਿੱਚ ਮਾਨਚਿੱਤਰ ਵਿੱਚ ਭਰੇ ਹੋਏ ਸਥਾਨਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ, ਜਿਸ ਦੇ 7 ਅੰਕ ਹੋਣਗੇ। ਉਪ-ਭਾਗ ਅ ਦਾ ਉੱਤਰ ਲਗਭਗ 125-150 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ।  $1 \times (8 + 7) = 15$
11. ਕੇਵਲ ਨੇਤਰਹੀਣ ਵਿਦਿਆਰਥੀਆਂ ਲਈ : (ਨੇਤਰਹੀਣ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਕਸ਼ੇ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਦੀ ਥਾਂ ਤੇ ਇੱਕ ਵੱਖਰਾ ਪ੍ਰਸ਼ਨ ਕਰਨ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਦੋ ਉਪ-ਭਾਗ ਓ ਅਤੇ ਅ ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ। ਹਰੇਕ ਉੱਪ-ਭਾਗ ਦੇ 8 ਅਤੇ 7 ਅੰਕ ਹੋਣਗੇ। ਇਸ ਪ੍ਰਸ਼ਨ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।

## ਸਮੇਸਟਰ-II

### ਪਾਠ ਕ੍ਰਮ ਦੀ ਵੰਡ

#### ਭਾਗ-ੳ

1. ਅਬੱਦੁਸ ਸਮਦ ਖਾਂ, ਜ਼ਕਰੀਆਂ ਖਾਂ ਅਤੇ ਮੀਰ ਮੰਨੂ : ਉਨ੍ਹਾਂ ਦੇ ਸਿੱਖਾਂ ਨਾਲ ਸਬੰਧ।
2. ਦਲ ਖਾਲਸਾ ਦੀ ਉੱਤਪਤੀ ਅਤੇ ਇਸ ਦੀ ਯੁੱਧ ਪ੍ਰਣਾਲੀ।
3. ਮੁਗਲਾਂ ਦੇ ਅਧੀਨ ਪੰਜਾਬ ਦੀ ਸਮਾਜਿਕ ਅਤੇ ਆਰਥਿਕ ਅਵਸਥਾ।

4. ਅਹਿਮਦਸ਼ਾਹ ਅਬਦਾਲੀ ਦੇ ਹਮਲੇ ਅਤੇ ਪੰਜਾਬ ਵਿੱਚ ਮੁਗਲ ਸ਼ਾਸਨ ਦਾ ਪਤਨ।
5. ਸਿੱਖ ਮਿਸਲਾਂ ਦੀ ਉੱਤਪਤੀ ਅਤੇ ਵਿਕਾਸ ਅਤੇ ਉਨ੍ਹਾਂ ਦੇ ਸੰਗਠਨ ਦਾ ਸਰੂਪ।

#### **ਭਾਗ-ਅ**

6. ਰਣਜੀਤ ਸਿੰਘ ਦਾ ਜੀਵਨ ਅਤੇ ਜਿੱਤਾਂ।
7. ਐਂਗਲੋ-ਸਿੱਖ ਸਬੰਧ 1800-1839।
8. ਰਣਜੀਤ ਸਿੰਘ ਦੇ ਅਫਗਾਨਿਸਤਾਨ ਨਾਲ ਸਬੰਧ ਅਤੇ ਉਸ ਦੀ ਉੱਤਰ-ਪੱਛਮੀ ਸੀਮਾਂ ਸਬੰਧੀ ਨੀਤੀ।
9. ਰਣਜੀਤ ਸਿੰਘ ਦਾ ਸਿਵਲ ਅਤੇ ਸੈਨਿਕ ਸ਼ਾਸਨ ਪ੍ਰਬੰਧ।
10. ਰਣਜੀਤ ਸਿੰਘ ਦਾ ਚਰਿੱਤਰ ਅਤੇ ਸ਼ਖਸੀਅਤ।
11. ਪਹਿਲਾ ਐਂਗਲੋ-ਸਿੱਖ ਯੁੱਧ : ਕਾਰਨ ਅਤੇ ਨਤੀਜੇ।
12. ਦੂਜਾ ਐਂਗਲੋ-ਸਿੱਖ ਯੁੱਧ : ਕਾਰਨ ਅਤੇ ਨਤੀਜੇ।

#### **ਭਾਗ-ਬ**

ਇਸ ਭਾਗ ਬ ਵਿੱਚੋਂ ਇੱਕ ਨਕਸ਼ੇ ਦਾ ਪ੍ਰਸ਼ਨ ਕਰਨ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਨਕਸ਼ੇ ਦਾ ਪ੍ਰਸ਼ਨ ਹੇਠ ਲਿਖੇ ਨਕਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਵੇਗਾ।

1. ਰਣਜੀਤ ਸਿੰਘ ਦਾ ਸਮਰਾਜ।
2. ਪਹਿਲਾ ਐਂਗਲੋ-ਸਿੱਖ ਯੁੱਧ।
3. ਦੂਜਾ ਐਂਗਲੋ-ਸਿੱਖ ਯੁੱਧ।

## **18. ECONOMICS** (HUMANITIES GROUP) **SEMESTER - I**

**Time : 2<sup>1</sup>/<sub>2</sub> Hours**

**Theory = 55 Marks**  
**IA/CCE- Marks : 25 Marks**  
**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. There is no length limit for Numerical Questions.
5. All Units of the syllabus should be given adequate representation in the Question Paper.

6. Question paper will have 3 Sections A, B & C.

### **SECTION A**

Question No.1 will consist of 9 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-I. Answer of each question should be given in 1-15 words.

### **SECTION B**

This section will cover Part A of the syllabus.

4 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

1 question of 7 marks with internal choice will be set. Answer limit should be 250-300 words.

### **SECTION C**

This section will cover Part B of the syllabus.

4 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

1 question of 7 marks with internal choice will be set. Answer limit should be 250-300 words.

## **SYLLABUS**

### **PART-A (INTRODUCTORY MICRO ECONOMICS)**

#### **1 INTRODUCTION**

What is Micro Economics, Difference between Micro and Macro Economics, Central Problems of an Economy, Production Possibility Curve and Opportunity Cost.

#### **2 CONSUMER BEHAVIOUR AND DEMAND**

- i. Consumer Equilibrium:- Meaning and attainment of equilibrium through utility approach, one and two commodity case.
- ii. Demand, Market Demand, Determinants of Demand, Demand Schedule, Demand Curve, Movement along and shift in Demand Curve.
- iii. Price Elasticity of Demand, Measurement of Price Elasticity of Demand, Percentage, Total expenditure and Geometric method.

### **PART-B (INTRODUCTORY MACRO ECONOMICS)**

### **3 NATIONAL INCOME AND RELATED AGGREGATES**

- i. Basic Concept and Measurement of National Income (introduction only)
- ii. Macro Economics: Meaning, Circular Flow of Income.

### **4 DETERMINATION OF INCOME AND EMPLOYMENT.**

- i. Aggregate Demand, Aggregate Supply and their Components.
- ii. Propensity to Consume and Propensity to Save (Average and marginal).
- iii. Meaning of Involuntary-Unemployment and Full Employment.
- iv. Determination of Income and Employment-Two sector model.

### **5 BALANCE OF TRADE AND BALANCE OF PAYMENTS.**

- i. Foreign Exchange Rate: Meaning (fixed and flexible), merits and demerits;
- ii. Determination through Demand and Supply.
- iii. Balance of Payment Accounts; meaning and components.
- iv. A brief analysis about recent exchange rate issue.

## **SEMESTER - II**

**TIME- 3 Hours**

**Theory = 85 Marks**  
**IA/CCE = 35 Marks**  
**Total = 120 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. The Question paper will cover whole of the syllabus prescribed for Semester-II.
2. All Questions will be compulsory.
3. 15 Questions will be set in the Question Paper.
4. There is no length limit for Numerical Questions.
5. All Units of the syllabus should be given adequate representation in the Question Paper.
6. Question paper will have 3 Sections A, B & C.

### **SECTION A**

Question No.1 will consist of 17 sub parts of 1 mark each. It will cover whole of syllabus prescribed for Semester-II. Answer of each question should be given in 1-15 words.

### **SECTION B**

This section will cover Part A of the syllabus.

5 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

2 question of 7 marks with internal choice will be set. Answer limit should be 250-300 words.

## **SECTION C**

This section will cover Part B of the syllabus.

5 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

2 questions of 7 marks each with internal choice will be set. One of these questions will be numerical type from Measurement of National Income. Answer limit of theoretical question should be 250-300 words.

## **SYLLABUS**

### **PART-A (INTRODUCTORY MICRO ECONOMICS)**

#### **1 PRODUCER BEHAVIOUR AND SUPPLY**

- i. Production-Function; Returns to Factor and Returns to Scale.
- ii. Supply, Market Supply, Determinants of Supply, Supply Schedule, Supply Curve, Movement along and shifts in supply curve, Price Elasticity of Supply, Measurement of Price Elasticity of Supply; Percentage and geometric method.
- iii. Cost and Revenue: Concepts of Costs, Short run Cost Curves; Fixed and Variable Costs, Total, Average and Marginal Costs; Concepts of Revenue: Total, Average and Marginal Revenue and their relationship.
- iv. Producer's Equilibrium with the help of MC and MR.

#### **2 FORMS OF MARKET AND PRICE DETERMINATION**

- i. Forms of market: Perfect Competition, Monopoly, Monopolistic Competition-their meaning and features.
- ii. Price Determination under Perfect Competition-equilibrium price, effect of shifts in demand and supply.

### **PART-B (INTRODUCTORY MACRO ECONOMICS)**

#### **3 NATIONAL INCOME AND RELATED AGGREGATES**



- i. Concepts of GDP, GNP, NDP, NNP (at market price and factor cost), National Disposable Income (Gross & Net); Private Income, Personal Income and Personal Disposable Income.
- ii. Measurement of National Income-Value Added Method, Income Method & Expenditure Method.

#### **4 DETERMINATION OF INCOME AND EMPLOYMENT.**

- i. Concept of Investment Multiplier and its working.
- ii. Problems of excess and deficient demand. Measures to correct excess and deficient demand, Availability of Credit, Change in Government spending.

#### **5 MONEY AND BANKING**

- i. Money: Meaning, Evolution and Functions.
- ii. Central Bank: Meaning and Functions.
- iii. Commercial Banks: Meaning and Functions.
- iv. Recent significant reforms and issues in Indian Banking System; Privatisation and Modernization.

#### **6 GOVERNMENT BUDGET AND THE ECONOMY**

- i. Government Budget. Meaning and its Components, Objectives of Government Budget.
- ii. Classification of receipt-revenue and capital.
- iii. Classification of expenditure-revenue and capital, plan and non-plan and development and non-development.
- iv. Balance Budget, Surplus Budget and Deficit Budget; meaning and implications. Revenue Deficit, Fiscal Deficit and Primary Deficit; meaning and implications; measures to contain different deficits. Downsizing the role of Government: Meaning and Implications.

## **19. MATHEMATICS**

**Time : 2.30 hrs.**

**Theory : 55 Marks**

**CCE/Internal Assessment : 25 Marks**

**SEMESTER - I**

**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. All Questions are Compulsory.
2. Q 1. will consists of seven parts and each part will carry 1 Mark.
3. Q 2. to Q 12 each will be of 3 Marks.
4. Q 13 to Q 15 i.e. three questions each will be of 5 marks.

5. There will be no overall choice. There will be an internal choice in any three questions of 3 marks each and two questions of 5 marks each (Total of 5) internal choices).
6. Use of Calculator is not allowed.

Sr. No.	Topic	Q. Carrying 1-Marks	Q. Carrying 3-Marks	Q. Carrying 5-Marks	Total Marks
1.	Relations & Functions	1	2	-	07
2.	Inverse Trigonometric Functions	1	1	-	04
3.	Matrices and Determinants	3	3	1	17
4.	Continuity & Differentiability	1	3	1	15
5.	Applications of Derivatives	1	2	1	12
	<b>Total</b>	<b>7</b>	<b>11</b>	<b>3</b>	<b>55</b>

## SYLLABUS

### 1. Relations and Functions:

Types of relations: Reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, inverse of function. Binary operations.

### 2. Inverse Trigonometric Functions:

Definition, Range, Domain, Principal value branches. Graphs of inverse trigonometric functions. Elementary properties of trigonometric functions.

### 3. Matrices:

Concept, Notation, order, equality, types of matrices, zero matrix, transpose of a matrix, symmetric and skew symmetric matrices. Addition, multiplication and scalar multiplication of matrices, simple properties of addition, multiplication and scalar multiplication. Non-Commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).

### 4. Determinants:

Determinant of a square matrix (up to  $3 \times 3$  matrices), properties of determinants, minors, cofactors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equation by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

**5. Continuity and Differentiability:**

Continuity and Differentiability, derivative of composite functions, chain rule, derivative of inverse trigonometric functions, derivative of implicit function. Concept of exponential and logarithmic functions and their derivative, Logarithmic differential. Derivative of functions expressed in parametric forms, Second order derivatives. Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretations.

**6. Applications of Derivatives**

Applications of Derivatives: rate of change, increasing/decreasing functions, tangents & normal, approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real life situations).

**SEMESTER II****Theory : 85 Marks****Time : 3 hrs****CCE/Internal Assessment : 35 Marks****Total : 120 Marks****STRUCTURE OF QUESTION PAPER**

- All questions are compulsory.
- Q.1 will consist of ten parts and each part will carry 1-mark.
- Q.2 to Q.16 will carry three marks each.
- Q.17 to Q.21 i.e. five question each will be of six marks.
- There will be no over all choice. There will be an internal choice in any three questions of three marks each and any two questions of 6 mark each.
- Use of calculator is not allowed

<b>Sr. No.</b>	<b>Topic</b>	<b>Q. Carrying 1-Marks</b>	<b>Q. Carrying 3-Marks</b>	<b>Q. Carrying 6-Marks</b>	<b>Total Marks</b>
1.	Integrals	1	4	1	19
2.	Application of Integrals	1	1	1	10
3.	Differential Equations	3	3	-	12
4.	Vectors	2	3	-	11
5.	Three-dimensional Geometry	1	2	1	13
6.	Linear Programming	1	-	1	07
7.	Probability	1	2	1	13
	<b>Total</b>	<b>10</b>	<b>15</b>	<b>5</b>	<b>85</b>

## SYLLABUS

### 1. Integrals :

Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, only simple integrals of the type to be evaluated.

$$\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}, \int \frac{dx}{ax^2 + bx + c},$$
$$\int \frac{(px + q)}{ax^2 + bx + c} dx, \int \frac{(px + q)}{\sqrt{ax^2 + bx + c}} dx, \int \sqrt{a^2 \pm x^2} dx \text{ and } \int \sqrt{x^2 - a^2} dx$$

Define integrals as a limit of a sum. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.

### 2. Application of integrals:

Applications in finding the area under simple curves, especially lines, areas of circles/parabolas/ellipses (in standard form only), area between the two above said curves (the region should be clearly identifiable).

### 3. Differential Equations:

Definition, order and degree, general and particular solutions of a differential equation, Formation of differential equation whose general Solution is given. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree. Solutions of linear equation of the type:

$$\frac{dy}{dx} p(x)y = q(x)$$

Where  $p(x)$  and  $q(x)$  are functions of  $x$ .

### 4 Vectors:

Vectors and scalars, magnitude and directions of a vector. Direction cosines/ratios or vector's. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vectors of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.

### 5. Three-dimensional Geometry:

Direction cosines/ ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane.

**6. Linear Programming:**

Introduction, definition of related terminology such as constraints, Objectives function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P Problems, graphical method of solution for problems in two variables, feasible and infeasible regions, feasible and infeasible solutions, optional feasible solutions (up to three non-trivial constraints).

**7. Probability:**

Multiplication theorem on Probability. Conditional probability, independent events, total probability, Baye's theorem, Random variable and its probability distribution, mean and variance of haphazard variable. Repeated independent (Bernoulli) trials and Binomial distribution.

**20. BUSINESS ORGANISATION & MANAGEMENT**  
**(HUMANITIES GROUP)**  
**SEMESTER - I**

TIME : 2½ Hours

Theory : 55 Marks  
IA/CCE : 25 Marks  
Total : 80 Marks

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question paper will have 3 Sections A, B & C.

**SECTION A**

Question No.1 will consist of 9 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-I. Answer of each question should be given in 1-15 words.

**SECTION B**

This section will cover Part A of the syllabus.

4 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

1 question of 7 marks with internal choice will be set. Answer limit should be 250-300 words.

## **SECTION C**

This section will cover Part B of the syllabus.

4 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

1 question of 7 marks with internal choice will be set. Answer limit should be 250-300 words.

## **SYLLABUS PART-A**

### **PRINCIPLES AND FUNCTIONS OF MANAGEMENT**

#### **Unit-1 Nature and Significance of Management.**

Management: Concept, Objectives and importance.

Management: as a activity, Process, discipline and as a group.

Nature of Management: as a science, as an art as a profession.

Management and Administration -----Comparison.

Level of Management -----Top, Middle and Supervisory.

Management functions - planning, Organizing, Staffing Directing, Coordinating and controlling.

#### **Unit-2 Principles of Management.**

Principles of Management: Meaning, Nature and Significance.

Fayol's Principles of Management.

Taylor's Scientific Management: Principles and Techniques.

#### **Unit-3 Business Environment**

Business Environment----Meaning and Importance.

Dimensions of. Business Environment ----Political, Economic, social, legal and Technological.

Economic Environment in India, Impact of Government policy changes on business and industry with reference to liberalization to liberalization, privatization and globalization (since 1991)

#### **Unit-4 Planning**

Meaning, Features, Process, Importance and Limitations.

Goals, Objectives, Policy, Procedures, Strategy, Methods, Rules, Budgets and Programme--- Meaning and Distinction.

**PART-B**  
**BUSINESS FINANCE AND MARKETING**

**Unit-5 Business Finance**

Meaning and Objectives of Finance Function, Profit Maximization Vs. wealth Maximization.

Financial planning: Meaning and Importance.

Capital Structure: Meaning and Factors.

Working Capital: Meaning, Importance, Types and Factors affecting its requirements

**Unit-6 Financial Market**

Concept of Financial Market: Money Market---Nature, Instruments.

Capital Market: Nature and Types---Primary and Secondary Market.

Distinction between Capital Market and Money Market.

Stock Exchange: Meaning, Functions, NSEI, OTCI, Trading Procedure.

Securities and Exchange Board of India (SEBI): Objectives and Functions.

**SEMESTER - II**

TIME- 3 Hours

Theory : 85 Marks  
IA/CCE : 35 Marks  
Total : 120 Marks

**STRUCTURE OF QUESTION PAPER**

1. The Question paper will cover whole of the syllabus prescribed for Semester-II.
2. All Questions will be compulsory.
3. 15 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question Paper will have 3 Sections A, B & C.

**SECTION A**

Question No.1 will consist of 17 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-II. Answer of these questions should be given in 1-15 words.

**SECTION B**

This section will cover Part A of the syllabus.

5 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

2 questions of 7 marks with internal choice will be set. Answer limit should be 250-300 words.

## **SECTION C**

This section will cover Part B of the syllabus.

5 questions of 4 marks each will be set. Answer limit of each question should be 75-80 words.

2 questions of 7 marks each with internal choice will be set. Answer limit of each question should be 250-300 words.

## **SYLLABUS PART-A**

### **PRINCIPLES AND FUNCTIONS OF MANAGEMENT**

#### **Unit -1 Organizing**

Meaning and Importance.

Process of Organizing.

Types of Organization: Formal Informal, Line Organization, Line & Staff and Functional Organization.

Delegation: Meaning, Elements and Importance, Barriers in the way of delegation, Steps to make delegation effective.

Decentralization between Centralization and Decentralization.

Difference between Delegation and Decentralization.

#### **Unit-2 Staffing**

1. Staffing: Meaning, Need and Importance.

2. Steps in Staffing Process.

a. Recruitment: Meaning and Sources,

b. Selection: Meaning and Process.

c. Training and Development: Meaning, Need, Type and Methods.

3. Methods of Wage Payment: Time Rate and Piece Rate.

4. Types of Compensation and Incentives: Monetary and Non Monetary.

#### **Unit-3 Directing**

1. Controlling: Meaning and Importance.

2. Relationship between planning and controlling.

3. Steps in process of control.



**PART-B**  
**BUSINESS FINANCE AND MARKETING**

**Unit-4**

**Marketing**

1. Marketing: Meaning, Function, Role.
2. Distinction between Marketing and Selling.
3. Marketing mix: Concept and Elements.  
Product: Nature, Classification, Branding, Labeling, and Packaging.  
Physical distribution: Meaning, role, Channels of distribution: Meaning, Types. Factors, determining, Choice of Channels.  
Promotion: Meaning and Role, Promotion Mix, Role of Advertising  
Price: Factors influencing Pricing.

**Unit-5**

**Consumer Protection.**

1. Importance of consumer protection.
2. Consumer rights.
3. Ways and means of Consumer protection: Consumer awareness and legal redressal with special reference consumer protection Act.1986.
4. Role of consumer organization and NGOs.

**Unit-6**

**Entrepreneurship Development.**

1. Entrepreneurship; Concept, Characteristics, needs and functions.
2. Process of Entrepreneurship Development.
3. Entrepreneur-Values, Attitudes and Motivation: Meaning and Concept.

**21. BOOK KEEPING AND ACCOUNTANCY**

(HUMANITIES GROUP)

**SEMESTER-I**

**Time : 2<sup>1</sup>/<sub>2</sub> Hours**

**Theory : 55 Marks**

**IA/CCE : 25 Marks**

**Total : 80 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 14 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. There is no length limit for numerical questions.
6. Question No. 1 will consist of 9 sub parts of one mark each. Answer of each question should be given in 1-15 words.

7. Question No. 2 to 6 (of which two will be of numerical nature and other three of theoretical nature) will carry 2 marks each. Answer of each theoretical question should be given in 10-15 lines.
8. Question No. 7 to 12 (of which three will be of numerical nature and other three of theoretical nature) will carry 4 marks each. Answer of each theoretical question should be given in 20-25 lines.
9. Question No. 13 and 14 will carry 6 marks each. Question No. 13 will be of numerical nature with internal choice while in Question No. 14 their will be a choice between numerical and theoretical question. Answer of this theoretical question must be between 2-4 pages.
10. The Use of non-programmable simple calculator is allowed.

## **SYLLABUS**

### **Unit-1      Accounting not for Profit Organization**

- I. Not for Organization : Meaning and examples.
- II. Receipts and payments : Meaning and Concept of Fund Based and Non Fund Based Accounting.
- III. Preparation of Income and Expenditure Account and Balance Sheet From Receipt and Payment Account with additional information.

### **Unit-II      Accounting for Partnership**

- I. Nature of Partnership Firm : Partnership Deed (Meaning, Importance).
- II. Final Account of Partnership : Fixed v/s Fluctuating Capital, Division of Profit among Partners (excluding guarantee and past adjustment), Profit and Loss Appropriation Account.

### **Unit-III      Reconstitution of Partnership**

- I. Changes in Profit Sharing Ratio among the existing partners-Sacrificing Ratio and Gaining Ratio.
- II. Accounting for Revaluation of Assets and Liabilities and Distribution of reserves and Accumulated Profits.
- III. Goodwill : Nature, Factors Affecting and Methods of Valuation Average Profit, Super Profit, Multiplier and Capitalization method.
- IV. Admission of a Partner Effect of Admission of Partner, Change in Profit sharing Ratio, Accounting Treatment for Goodwill (as per accounting standard 10), Revaluation of Assets and Liabilities, Reserves (accumulated profits ) and Adjustment of Capitals.

### **Unit IV      Accounting for Share and Debenture Capital**

- I. Share capital : Meaning, Nature and Types.

- II. Accounting for Share Capital Issue and Allotment of Equity and Preference Share. Over Subscription and Under Subscription. Issue; at par, Premium and at discount ; calls in Advance, Calls in Arrears, Issue of Shares for Consideration other than cash.
- III. Forfeiture of Share; accounting Treatment, Re-issue of Forfeited Shares,
- IV. Presentation of share and Debenture capital in company's Balance Sheet.
- V. Issue of Debenture : Meaning, .Issue at par, Premium and Discount, Issue of Debenture for consideration other than cash.
- VI. Redemption of Debenture : Out of proceeds of Fresh Issue, Accumulated Profits and Sinking Fund.

## **SEMESTER-II**

**Time : 3 Hours**

**Theory : 85 Marks**  
**IA/CCE : 35 Marks**  
**Total : 120 Marks**

### **STRUCTURE OF QUESTION PAPER**

- 1. The Question Paper will cover whole of the syllabus prescribed for Semester-II.
- 2. All Questions will be compulsory.
- 3. 15 Questions will be set in the Question Paper.
- 4. All Units of the syllabus should be given adequate representation in the Question Paper.
- 5. There is no length limit for numerical questions.
- 6. Question No. 1 will consist of 10 sub parts of one mark each. Answer of each question should be given in 1-15 words.
- 7. Question No. 2 to 6 (of which two will be of numerical nature and other three of theoretical nature) will carry 3 marks each. Answer of each theoretical question should be given in 10-15 lines.
- 8. Question No. 7 to 12 (of which three will be of numerical nature and other three of theoretical nature) will carry 5 marks each. Answer of each theoretical question should be given in 20-25 lines.
- 9. Question No. 13 to 15 will carry 10 marks each. Question No. 13 will be of numerical nature with internal choice while in question No. 14 & 15 their will be a choice between numerical and theoretical questions. Answer of each theoretical question must be between 3-5 pages each.
- 10. The Use of non-programmable simple calculator is allowed.

## **SYLLABUS**

### **Unit-I- Reconstitution of Partnership**

(i) Retirement/Death of a Partner: Change in Profit Sharing Ratio Accounting Treatment of Goodwill, Revaluation of Assets and Liabilities, Adjustment of Accumulated Profits (Reserves) Payment to Retiree? Deceased Partners.

### **Unit-II- Dissolution of Partnership Firm**

(i) Meaning, Settlement of Accounts: Preparation of Realization Account and Related Accounts (excluding piecemeal distribution, sale to a company and insolvency of a partner)

### **Unit-III- Analysis of Financial Statement**

- (i) Financial Statements of a Company: Balance Sheet of a Company in the Prescribed Form with major heading only (Schedule VI)
- (ii) Financial Analysis: Meaning, Significance and Purpose, Limitations.
- (iii) Tools for Financial Analysis: Comparative Statement, Common Size Statement & Trend analysis.
- (iv) Accounting Ratios: Meaning and Objectives, Type of Ratios:  
Liquidity Ratios: Current Ratio, Liquidity Ratio.  
Solvency Ratio: Debt to Equity, Total Assets to Debt, Proprietary Ratio,  
Activity Ratio: Inventory Turnover, Debtors Turnover, Payables  
Turnover Working Capital Turnover Fixed Assets,  
Turnover Current Assets Turnover,  
Profitability Ratio; Gross Profit Operating Ratio, Net Profit Ratio,  
Return on Investment, Earning Per Share,  
Dividend Per Share, Price Earning Ratio

### **Unit-IV Statement of Changes in Financial Position**

Cash Flow Statement : Meaning and Objectives. Preparation, Adjustments related to Depreciation. Dividend and Tax, Sale and Purchase of non-current assets (as per revised standards issued by ICAI).

## 22. ਰਾਜਨੀਤੀ ਸ਼ਾਸਤਰ

### ਸਮੈਸਟਰ-I

ਸਮਾਂ-2 ½ ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 55 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 25 ਅੰਕ

ਕੁੱਲ : 80 ਅੰਕ

### ਪ੍ਰਸ਼ਨ ਪੱਤਰਾਂ ਦੀ ਰੂਪ-ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਤਿੰਨ ਭਾਗ ਹੋਣਗੇ।
2. ਭਾਗ-ੳ, ਬਹੁਤ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (Objective Type) ਹੋਣਗੇ। ਇਹਨਾ ਪ੍ਰਸ਼ਨਾਂ ਦਾ ਉੱਤਰ ਇੱਕ ਲਾਈਨ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਗਿਣਤੀ 11 ਹੋਵੇਗੀ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 1 ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹੈ।  $11 \times 1 = 11$
3. ਭਾਗ-ਅ ਵਿੱਚ ਕੁੱਲ 8 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਇਹਨਾਂ ਵਿੱਚੋਂ ਕੋਈ 6 ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 4 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 4-5 ਲਾਈਨਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ।  $6 \times 4 = 24$
4. ਭਾਗ-ੲ ਵਿੱਚ ਅੰਦਰੂਨੀ ਛੋਟੇ ਦੇ 2 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 10 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 3-4 ਪੰਨਿਆਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ।  $2 \times 10 = 20$
5. ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਸਮੈਸਟਰ ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ ਤੇ ਅਧਾਰਿਤ ਹੋਵੇਗਾ। ਸਲੇਬਸ ਦੇ ਹਰ ਭਾਗ ਨੂੰ ਸਮਾਨ ਪ੍ਰਤੀਨਿਧਤਾ ਪ੍ਰਦਾਨ ਕੀਤੀ ਜਾਵੇਗੀ।

### ਸਿਲੇਬਸ

#### Part-A

#### ਭਾਗ-ੳ

Unit-I ਰਾਜਨੀਤਿਕ ਪ੍ਰਣਾਲੀ-ਰਾਜ ਅਤੇ ਰਾਜਨੀਤਿਕ ਪ੍ਰਣਾਲੀ

1. ਅਰਥ, ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਕੰਮ
2. ਤੁਲਨਾਤਮਕ ਰਾਜਨੀਤੀ
3. ਰਾਜਨੀਤਿਕ ਸਭਿਆਚਾਰ
4. ਰਾਜਨੀਤਿਕ ਸਮਾਜੀਕਰਣ

Unit-III ਨੌਕਰਸ਼ਾਹੀ

Unit-IV ਚੋਣ ਮੰਡਲ

## Part-B

### ਭਾਗ-ਅ

Unit-XI	ਚੋਣ ਪ੍ਰਣਾਲੀ
Unit-XII	ਰਾਸ਼ਟਰੀ ਏਕੀਕਰਣ
Unit-XIV	ਭਾਰਤ ਅਤੇ ਸੰਸਾਰ

1. ਗੁਆਂਢੀ ਦੇਸ਼ਾਂ ਨਾਲ ਭਾਰਤ ਦੇ ਸੰਬੰਧ
2. ਸਯੁਕਤ ਰਾਜ ਅਮਰੀਕਾ ਤੇ ਰੂਸ ਦੇ ਭਾਰਤ ਨਾਲ ਸੰਬੰਧ
3. ਭਾਰਤ ਦਾ ਸੰਸਾਰ ਦੀਆਂ ਮੁੱਖ ਸਮਸਿਆਵਾਂ ਪ੍ਰਤੀ ਦ੍ਰਿਸ਼ਟੀਕੋਣ

### ਸਮੈਸਟਰ-II

ਸਮਾਂ- 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 85 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 35 ਅੰਕ

ਕੁੱਲ : 120 ਅੰਕ

### ਪ੍ਰਸ਼ਨ ਪੱਤਰਾਂ ਦੀ ਰੂਪ-ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਤਿੰਨ ਭਾਗ ਹੋਣਗੇ।
2. ਭਾਗ-ੳ, ਬਹੁਤ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (Objective Type) ਹੋਣਗੇ। ਇਹਨਾ ਪ੍ਰਸ਼ਨਾਂ ਦਾ ਉੱਤਰ ਇੱਕ ਲਾਈਨ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਗਿਣਤੀ 15 ਹੋਵੇਗੀ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 1 ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹੈ।  $15 \times 1 = 15$
3. ਭਾਗ-ਅ ਵਿੱਚ ਕੁੱਲ 12 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਇਹਨਾ ਵਿੱਚੋਂ ਕੋਈ 10 ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 5 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 4-5 ਲਾਈਨਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ।  $10 \times 5 = 50$
4. ਭਾਗ-ੲ ਵਿੱਚ ਅੰਦਰੂਨੀ ਛੋਟ ਦੇ 3 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 10 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 3-4 ਪੰਨਿਆਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ।  $3 \times 10 = 30$
5. ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਸਮੈਸਟਰ ਦੇ ਪੂਰੇ ਪਾਠ-ਕ੍ਰਮ ਤੇ ਅਧਾਰਿਤ ਹੋਵੇਗਾ। ਸਲੇਬਸ ਦੇ ਹਰ ਭਾਗ ਨੂੰ ਸਮਾਨ ਪ੍ਰਤੀਨਿਧਤਾ ਪ੍ਰਦਾਨ ਕੀਤੀ ਜਾਵੇਗੀ।

### ਸਿਲੇਬਸ

#### ਭਾਗ-ੳ

Unit-II ਕੁੱਝ ਪ੍ਰਮੁੱਖ ਸਮਕਾਲੀ ਸਿਧਾਂਤ

1. ਉਦਾਰਵਾਦ

- 2. ਮਾਰਕਸਵਾਦ
- 3. ਮਹਾਤਮਾ ਗਾਂਧੀ ਦੇ ਰਾਜਨੀਤਿਕ ਵਿਚਾਰ
- Unit-V 1. ਲੋਕ ਮਤ
- Unit-VI 1. ਦਲ ਪ੍ਰਣਾਲੀ
- Unit-VII 1. ਹਿੱਤ ਅਤੇ ਦਬਾਅ ਸਮੂਹ

#### ਭਾਗ-ਅ

Unit-VIII ਭਾਰਤੀ ਲੋਕਤੰਤਰ

- 1. ਭਾਰਤੀ ਲੋਕਤੰਤਰ- ਸੰਸਦੀ ਨਮੂਨਾ
- 2. ਭਾਰਤੀ ਲੋਕਤੰਤਰ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਸਮਾਜਕ ਤੇ ਆਰਥਕ ਤੱਤ
- 3. ਲੋਕਤੰਤਰ ਦੀਆਂ ਸੱਮਸਿਆਵਾਂ ਤੇ ਚੁਣੌਤੀਆਂ

Unit-IX ਹੇਠਲੇ ਪੱਧਰ ਤੇ ਲੋਕਤੰਤਰ

- 1. ਸਥਾਨਕ ਲੋਕਤੰਤਰ- ਪੇਂਡੂ
- 2. ਸਥਾਨਕ ਲੋਕਤੰਤਰ-ਸ਼ਹਿਰੀ

Unit-X ਭਾਰਤ ਵਿੱਚ ਦਲ ਪ੍ਰਣਾਲੀ

- 1. ਭਾਰਤੀ ਦਲ ਪ੍ਰਣਾਲੀ ਦਾ ਸਰੂਪ
- 2. ਮੁੱਖ ਰਾਸ਼ਟਰੀ ਰਾਜਨੀਤਕ ਦਲ

Unit-XIII ਭਾਰਤ ਦੀ ਵਿਦੇਸ਼ ਨੀਤੀ

- 1. ਭਾਰਤ ਦੀ ਵਿਦੇਸ਼ ਨੀਤੀ
- 2. ਭਾਰਤ ਅਤੇ ਸੰਯੁਕਤ ਰਾਸ਼ਟਰ
- 3. ਭਾਰਤ ਅਤੇ ਸਾਰਕ

## 23. SOCIOLOGY

### SEMESTER -I

**Time :2 ½Hours**

**Theory : 55 Marks**

**CCE/Int. Assessment : 25 Marks**

**Total : 80 Marks**

### STRUCTURE OF QUESTION PAPER

1. There will be three Section i.e A,B & C of the question paper
2. In Section A, 11 very short answer type questions will be set. The Candidates are required to attempt all questions, answer to each question should be in one line, and carry one mark each.  $11 \times 1 = 11$
3. In Section B, there will be 8 questions in all, candidates are required to attempt 6 questions out of these. Answer to each question will be in 4-5 lines. Each question will carry 4 marks.  $6 \times 4 = 24$
4. In Section C, there will be two questions with 100% internal choice Answer to each question will be 3-4 pages. Each question will carry 10 marks.  $2 \times 10 = 20$
5. All units of the syllabus should be given adequate representation in the question paper.

### **SYLLABUS**

**Unit I: Traditional basis of social organization.**

Varna, Asharam, Pursharthas

**Unit II : Caste System.**

Definition, Features, Structure, Functions, Changes.

### **SEMESTER -II**

**Time : 3 Hours**

**Theory : 85 Marks**

**CCE/Int. Assessment : 35 Marks**

**Total : 120 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be three Section i.e A,B & C of the question paper
2. In Section A, 15 very short answer type questions will be set. The Candidates are required to attempt all questions, answer to each question should be in one line, and carry one mark each.  $15 \times 1 = 15$
3. In Section B, there will be 12 questions in all, candidates are required to Attempt 10 questions out of these. Answer to each question will be in 4-5 lines. Each question will carry 4 marks.  $10 \times 4 = 40$



4. In Section C, there will be three questions with 100% internal choice Answer to each question will be 3-4 pages. Each question will carry 10 marks. 3x10=30
5. All units of the syllabus should be given adequate representation in the question paper.

### **SYLLABUS**

**Unit : I      Marriage**

Meaning, Forms of traditional Hindu marriage, classification- Monogamy, Polygamy- polygyny and polyandry.

**Unit : II      Family.**

Meaning, Features, Functions, Types, Nuclear and joint, changes in family.

**Unit : III      Religion**

Features and social functions.

## **24. PUBLIC ADMINISTRATION (HUMANITIES GROUP) SEMESTER - I**

TIME- 2<sup>1</sup>/<sub>2</sub> Hours

Theory : 55 Marks  
IA/CCE : 25 Marks  
Total : 80 Marks

### **STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question No.1 will consist of 9 sub parts of 1 mark each. It will cover whole of syllabus prescribed for Semester-I. Answer of each question should be given in 1-15 words.
6. Question No. 2 to 9 will carry 4 marks each. The answer of each question should be given in 75-80 words.
7. Question No.10 and 11 each with internal choice will carry 7 marks each. The answer of each question should be given in 250-300 words.

### **SYLLABUS**

**UNIT -1 Personnel Administration**

- a) Recruitment and training: UPSC: Its Organization and Role.
- b) Promotion and Position Classification.
- c) Conduct and Discipline.
- d) Morale.
- e) Joint consultative Machinery: Employer-Employee Relations

**UNIT -II Financial Administration**

- a) Budget-Meaning, Principles and Importance. The budget as an instrument of Public Policy. The budgetary process.
- b) Ministry of Finance -Its Organization and Working Legislative Control Finance.
- c) Public Accounts Committee at the central level.
- d) Estimates committee at the central level.
- e) Performance Budgeting.

**UNIT -III Audit and Its Role**

- a) Comptroller and Auditor General of India.
- b) Accounting: Its importance and Organization.

**SEMESTER - II**

TIME- 3 Hours

Theory : 85 Marks  
IA/CCE : 35 Marks  
Total : 120 Marks

**STRUCTURE OF QUESTION PAPER**

- 7. The Question paper will cover whole of the syllabus prescribed for Semester-II.
- 8. All Questions will be compulsory.
- 9. 15 Questions will be set in the Question Paper.
- 10. All Units of the syllabus should be given adequate representation in the Question Paper.
- 11. Question No.1 will consist of 17 sub parts of 1 mark each. It will cover whole of syllabus prescribed for Semester-II. Answer of each question should be given in 1-15 words.
- 12. Question No. 2 to 11 will carry 4 marks each. The answer of each question should be given in 75-80 words.
- 13. Question No.12 to 15 will carry 7 marks each with internal choice. The answer of each question should be given in 250-300 words.

**SYLLABUS**

**UNIT -I Selected Approaches**

- a) Scientific Management.
- b) Human relations Approach.

**UNIT - II Functional Aspects of Administration**

- a) Communication.
- b) Supervision.
- c) Coordination.
- d) Centralization.
- e) Decentralization.
- f) Field Headquarter Relationship.

**UNIT -III**

- a) Leadership.
- b) Policy Formation.
- c) Planning and Decision Making.

**UNIT -IV Administration Improvement**

- a) O & M (Organization and Methods).
- b) Administrative Reforms.

**UNIT -V Administrative Law**

- a) Administrative Law.
- b) Rule of Law.
- c) Delegated Legislation
- d) Administrative Tribunals -Role, Structure and Working.

**25. RELIGION  
SEMESTER -I**

Time : 2 ½ hrs.

Theory : 55 marks  
CCE : 25 marks  
Total : 80 marks

**STRUCTURE OF QUESTION PAPER**

1. The question paper will comprise of 12 questions in total.
  2. All questions will be compulsory to attempt.
  3. The question paper will consist of three parts with each part covering the whole syllabus of semester I.
- Part -I will consist of five (5) objective types questions (i.e. 1 to 5) carrying one mark each. The answer of each question should not exceed more than one sentence.

Part- II will consist of four (4) short answer type questions (i.e. 6 to 9) carrying five marks each. The answer of each question should be given in ten to fifteen lines.

Part-III will consist of three (3) essay type questions (i.e. 10 to 12) with internal choice covering each unit. These questions will carry ten marks each and answer of each question should not exceed more than three pages of the answer sheet.

## **SYLLABUS**

### **SECTION A : (HISTORICAL)**

(1) Rise And development of Sikhism (A.D. 1469 – 1708).

### **SECTION B : (LITERARY)**

- (2) Introduction to Vedic Literature (name and main features of the four Vedas).  
(3) General Introduction to Puranas, Upanishads, Shastras.

### **SECTION C : (REFLECTIVE)**

(4) Ethical teachings of Jainism.

## **SEMESTER -II**

Time : 3 hrs.

Theory : 85 marks  
CCE :35 marks  
Total : 120 marks

### **STRUCTURE OF QUESTION PAPER**

1. The question paper will comprise of 19 questions in total.
  2. All questions will be compulsory to attempt.
  3. The question paper will consist of three parts with each part covering the whole syllabi of semester II.
- Part –I will consist of ten (10) objective types questions (i.e. 1 to 10) carrying one mark each. The answer of each question should not exceed more than one sentence.
- Part- II will consist of six (6) short answer type questions (i.e. 11 to 16) carrying five marks each. The answer of each question should be given in ten to fifteen lines.
- Part-III will consist of three (3) essay type questions (i.e. 17 to 19) with internal choice covering each unit. These questions will carry fifteen marks each and their answer of each question should not exceed more than four pages of the answer sheet.

## **SYLLABUS**

**SECTION A : (HISTORICAL)**

- (1) Religious life of the Indus valley people and early Aryans.
- (2) Buddhist movement (up to Ashoka Period).

**SECTION B : (LITERARY)**

- (3) The Adi-Granth – its editing scheme.

**SECTION C : (REFLECTIVE)**

- (4) Ashta marga of Buddhism.
- (5) The Sikh way of life.

**BOOK PRESCRIBED**

An Introduction to Indian Religion by Harbans Singh & L.M. Joshi (Punjabi University, Patiala).

**BOOK SUGGESTED (for general reading)**

Punjabi University, Patiala

Budhism  
Jainism  
Sikhism

Surinder Singh Johar – A hand book of Sikhism.

**26. MUSIC (VOCAL)**

**SEMESTER -I**

**THEORY : 2½**

**PRACTICAL : 20 Minutes**

**Theory : 30 Marks**

**Practical : 40 Marks**

**CCE/Internal Assessment-10 Marks**

**Total -80 Marks**

**THEORY**

**STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Fourteen (14) Questions in total.
2. All Questions will be compulsory to attempt.
3. The Question Paper will consist of III Parts.

- Part-I will consist of Ten (8) Objective type Questions (i.e. 1 to 8) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (8 × 1 = 8)
- Part-II will consist of Four (4) Short Answer type Questions (i.e. 9 to 12) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (4 × 3 = 12)
- Part-III will consist of Two (2) Essay type Questions (i.e. 13 & 14) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Five (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. (5 × 2 = 10)

## **SYLLABUS**

### **PART-A**

1. Detailed knowledge Tanpura
2. Brief history of modern period of Hindustani Music.
3. Difference between Deshi and Margi Sangeet.
4. Contribution towards music by following scholars :
  - (a) Swami Haridas.
  - (b) Narayan Rao Vayas.

### **PART-B**

1. To write the notations of Khyals in prescribed Raags- Bhimplasi and Bhairav.
2. Notations of Ek Taal and Char Taal along with Dugun and Chougun layakaries.
3. Description of prescribed Raags.

## **PRACTICAL**

### **STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in a batch of practical examination.

Harmonium is allowed as accompaniment in music (vocal). The examiner will set the question paper on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of any one Raag out of the prescribed syllabus. The student can exercise the choice of Raags. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration of one Raag from the prescribed syllabus. The choice will be of examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration/performance of prescribed 'Taals' in Ikgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.

4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 5 marks.
5. Demonstration/performance regarding Alankaar/National anthem/non detailed Raags, it will also be for 4 minutes and will carry 5 marks.

## **SYLLABUS**

1. One Drut Khyal with Alaap- Tan in the following Raags :  
Bhimplasi and Bhairav.
2. One slow Khyal with short Alaaps and Taans in any of the prescribed Raags.
3. Ability to demonstrate Ek Taal and Char Taal with recting Bols by hands in Tha (Ikgun) & Dugun Layakari.
4. One Bhajan or Shabad or Geet.
5. Knowledge of the following Raags : (Aroh, Avroh & Pakar) Kafi and Ramkali Alankaars.

**Note :**     **The Candidate can take Vocal Music along with Instrumental, Gurmat Sangeet and/or Music (Tabla).**

## **SEMESTER-II**

**THEORY : 3 hrs.**

**PRACTICAL : 20 min.**

**Theory : 40 Marks**

**Practical : 60 Marks**

**CCE/Internal Assessment : 20 Marks**

**Total : 120 Marks**

### **THEORY**

#### **STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Eighteen (18) Questions in total.
2. All Questions will be compulsory to attempt.
3. The Question Paper will consist of III Parts.

Part-I will consist of Ten (10) Objective type Questions (i.e. 1 to 10) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (10 × 1 = 10)

Part-II will consist of Six (6) Short Answer type Questions (i.e. 11 to 16) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (6 × 3 = 18)

Part-III will consist of Two (2) Essay type Questions (i.e. 17 & 18) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Six (6) marks each and their answer should not exceed more than two pages of the Answer Sheet. (6 × 2 = 12)

## **SYLLABUS**

### **PART-A**

1. Detailed knowledge of the following :
  - (b) Tabla
  - (c) Harmonium
2. Principles of Alaap Gayan.
3. Principles of formation of Raags.
4. Define and explain the following musical terms :  
Meend, Nayak, Nayaki, Gayak, Gayaki, Vagyakar, Shudh, Chhayalg, Sankiran, Khyal, Sargam Geet, Lakshan Geet, Shabad and Bhajan.
5. Gayak Ka Gun Aur Dosh.
6. Contribution towards music by following scholars :
  - (a) Bade Gulam Ali Khan.
  - (b) Pandit Vishnu Digambar Pulaskar.

### **PART-B**

1. To write the notations of Khyals in Bihag and Varindavani Sarang Raags.
2. Notations of Sul Taal along with Dugun and Chougun Layakaries.
3. Recognition of Raags from given Swar Sangaties.

## **PRACTICAL**

### **STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in a batch of practical examination.

Harmonium is allowed as accompaniment in music (vocal). The examiner will set the question paper on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of any one Raag out of the prescribed syllabus. The student can exercise the choice of the Raags. It will be for 6 minutes and shall carry 15 marks.
2. Demonstration of one Raag from the prescribed syllabus. The choice will be of examiner. It will be for 4 minutes and will carry 15 marks.
3. Demonstration/performance of prescribed 'Taals' in Ikgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 10 marks.
5. Demonstration/performance regarding Alankaar/National anthem/non detailed Raags, it will also be for 4 minutes and will carry 10 marks.

## **SYLLABUS**



1. One Drut Khyal with Alaap- Tan the following Raags :  
Bihag, Varindavani Sarang.
2. One Dhrupad only Sathai and Antra in any of the prescribed Raags,
3. Ability to demonstrate Sul Taal with reciting Bols by hands in Tha (Ikgun) & Dugun Layakari.
4. Ability to play Dadra and Teen Tal on Tabla.
5. Knowledge of (Aroh, Avroh & Pakar) Jaunpuri Alankaars.

**Note:** The Candidate can take Vocal Music along with Instrumental, Gurmat Sangeet and/or Music (Tabla)

## **27. GURMAT SANGEET SEMESTER-I**

**THEORY : 2½ hrs.**

**PRACTICAL : 20 minutes**

**Theory : 30 Marks**

**Practical : 40 Marks**

**CCE/Internal Assessment : 10 Marks**

**Total : 80 Marks**

### **THEORY**

#### **STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of fourteen (14) Questions in total.
  2. All Questions will be compulsory to attempt.
  3. The Question Paper will consist of III Parts.
- Part-I will consist of Eight (8) Objective type Questions (i.e. 1 to 8) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (8 × 1 = 8)
- Part-II will consist of Four (4) Short Answer type Questions (i.e. 9 to 12) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (4 × 3 = 12)
- Part-III will consist of Two (2) Essay type Questions (i.e. 13 & 14) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Five (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. (5 × 2 = 10)

### **SYLLABUS**

#### **PART-A**

##### **Unit-1**

1. Brief history of Gurmat Music.
2. Contribution towards Gurmat Sangeet by Guru Arjun Dev ji.

##### **Unit-2**

1. Introduction of choukie : Asa Di Var.
2. Life sketch and contribution of Bhai Chand towards Gurbani Sangeet.

### **PART-B**

1. Description of the prescribed Raags : Bahairav and Sarang.
2. Description with Ikgun, Dugun and Chougun of Ek Taal and Jhap Taal.
3. Recognition of Bhairav and Sarang Raags from given Swar- Sangaties.

### **PRACTICAL STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in a batch of practical examination of Gurmat Sangeet. Harmonium will be allowed as accompaniment. The examiner will set the question paper on the spot. While setting the question paper in practical examination, the examiner must consider the syllabus in theory and will follow the following instructions:-

1. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed syllabus. The choice of the Raags will be done by the Students. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed syllabus. The examiner will do the choice of the Raags it will be for 4 minutes and shall carry 10 marks.
3. Demonstration/performance of Taals in Ikgun and Dugun layakaries hand. It will be for 4 minutes and shall carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 5 marks.
5. Demonstration/performance regarding lankaar/chhant and Salok. It will also be for 4 minutes and carry 5 marks.

### **SYLLABUS**

1. Shabad Gayan in Bhairav and Sarang Raags according to the traditional style of Gurbani Gayan.
2. Capability to demonstrate Ek Taal and Jhap Taal.
3. Gayan of one Gurbani Salok in Vilambat Laya according to Vandana Style.
4. Five Alankaars (Sargam and Akaar) in Bhairav Raag.

### **SEMESTER -II**

**THEORY : 3 hrs**  
**PRACTICAL : 20 Minutes**

**Theory : 40 Marks**  
**Practical : 60 Marks**  
**CCE/Internal Assesment -20 Marks**

**Total : 120 Marks**

**THEORY**  
**STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Eighteen (18) Questions in total.
  2. All Questions will be compulsory to attempt.
  3. The Question Paper will consist of III Parts.
- Part-I will consist of Ten (10) Objective type Questions (i.e. 1 to 10) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (10 × 1 = 10)
- Part-II will consist of Six (6) Short Answer type Questions (i.e. 11 to 16) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (6 × 3 = 18)
- Part-III will consist of Two (2) Essay type Questions (i.e. 17 & 18) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Six (6) marks each and their answer should not exceed more than two pages of the Answer Sheet. (6 × 2 = 12)

**PART-A**  
**Unit-1**

1. Brief introduction of famous Kirtanias of Guru period : Bhai Mardana, Bhai Shahzad, Bhai Sata and Bhai Balwand.
2. Raag Parkar and Mishrit (mixed) Raags of Guru Granth Sahib.

**Unit-2**

1. Definition of following music terms used in Gurmat Sangeet :  
Raag, Mahalla, Shabad Ank, Rahao, Dhuni (Dhun), Partal, Ghar
2. Introduction of choukie : Sodar
3. Life sketches and contribution toward Gurbani Snageet of the following :  
(a) Prof. Tara Singh                      (b) Bhai Hira Singh

**PART-B**

1. Description of the prescribed Raags : Todi and Dhanasari.
2. Description with Ikgun, Dugun and Chougun of Rupak and Teen Taal.
3. Recognition of prescribed Raags Asavari and Dhanasari Raaga from given Swar - Sangatias.
4. Notation of Shabad - Gayan only Sathai - Antra.

## **PRACTICAL STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in a baten of practical examination of Gurmat Sangeet. Harmonium will be allowed as accompaniment. The examiner will set the question paper on the spot. While setting the question paper in practical examination, the examiner must consider the syllabus in theory and will follow the following instructions:-

1. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed syllabus. The choice of the Raags will be done by the Students. 10 will be for 6 minutes and shall carry 15 marks.
2. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed syllabus. The examiner will do the choice of the Raags it will be for 4 minutes and shall carry 15 marks.
3. Demonstration/performance of Taals of Ikgun and Dugun layakaries by hand. It will be for 4 minutes and shall carry 10 marks.
4. Recognition of one Taals and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 10 marks.
5. Demonstration/performance regarding Alankaar/chhant and Salok. It will also be for 4 minutes and carry 10 marks.

### **SYLLABUS**

1. Shabad Gayan in Asavari and Dhansari Raags according to the tradition style of Gurbani Gayan.
2. Capability to demonstrate Rupak and Teen Taal.
3. Recognition of prescribed Raags by given Swar - Sangities.
4. Five Alankaars (Sargam and Akaar) in Todi Raag.

## **28. MUSIC (INSTRUMENTAL)**

### **SEMESTER -I**

**THEORY : 2½ hrs.**

**PRACTICAL : 20 minutes**

**Theory : 30 Marks**

**Practical : 40 Marks**

**CCE/Internal Assessment-10 Marks**

**Total : 80 Marks**

### **THEORY**

#### **STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Fourteen (14) Questions in total.
2. All Questions will be compulsory to attempt.

3. The Question Paper will consist of III Parts.

Part-I will consist of Eight (8) Objective type Questions (i.e. 1 to 8) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (8 × 1 = 8)

Part-II will consist of Four (4) Short Answer type Questions (i.e. 9 to 12) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (4 × 3 = 12)

Part-III will consist of Two (2) Essay type Questions (i.e. 13 & 14) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Five (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. (5 × 2 = 10)

## **SYLLABUS**

### **PART-A**

1. History of your instrument.
2. Detailed study of Bageshvari and Bhairav Raags.
3. Vadak ke Gun Aur Dosh.
4. Notation of Bageshwari & Bhairav Raags and Rupak & Ek Taals.
5. Hafiz Ali Khan- His life and contribution towards music.

### **PART-B**

1. To write the notation of Gats in Bageshwari & Bhairav Raags.
2. Notations of prescribed Raags.
3. Description of Rupak & Ek Taal with Ekgun and Dugun Layakaries.

## **PRACTICAL**

### **STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in a batch for practical examination. The examiner will set the question paper on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions:

1. Demonstration/performance of any one Raag out of the prescribed Syllabus. The student will do the choice of Raag. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of one Raag out of the prescribed syllabus. The examiner will do the choice of the Raag. It will be for 4 minutes and shall carry 10 marks.

3. Demonstration/performance of Taals in Ikgun ad Dugun Layakaries by hand. It will be for 4 minutes, and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 05 marks.
5. Demonstration/performance regarding Alankar/National Anthem/non-detailed Raags. It will also be for 4 minutes and carry 05 marks.

### **SYLLABUS**

1. One Drut Gat with short Alaap, Toras and Jhalla in each of the following Raags : Bageshveri and Bhairav.
2. One slow Gat with short Alaap and Toras in any of the prescribed Raags.
3. Ability to demonstrate Rupak and Ek Taal by hand with reciting Bols in Ikgun and Dugun Laykari.
4. Knowledge of the following Raags, (Aroh, Avroh and Paker)
  - (a) Kaffi (b) Ramkali
5. Ten Alankaars.

### **SEMESTER-II**

**THEORY : 3 hrs**

**PRACTICAL : 20 minutes**

**Theory : 40 Marks**

**Practical : 60 Marks**

**CCE/Internal Assessment-20 Marks**

**Total -120 Marks**

### **THEORY**

#### **STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Eighteen (18) Questions in total.
2. All Questions will be compulsory to attempt.
3. The Question Paper will consist of III Parts.

Part-I will consist of Ten (10) Objective type Questions (i.e. 1 to 10) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (10 × 1 = 10)

Part-II will consist of Six (6) Short Answer type Questions (i.e. 11 to 16) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (6 × 3 = 18)

Part-III will consist of Two (2) Essay type Questions (i.e. 17 & 18) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Six (6) marks each and their answer should not exceed more than two pages of the Answer Sheet. (6 × 2 = 12)

### **SYLLABUS**

### **PART-A**

1. Comparative study of Uttar and Dakhini Music Systems.
2. Detailed study of Desh and Bihag Raag.
3. Define and explain the following musical terms : Soot, Meend, Ghaseet, Jhalla, Nayak, Nayaki, Poorantrik (Major tone) Laghyantrik (Minor tone) Ardhantrik (Semi tone).
4. Method of 72 Thaats of Vyanket Mukhi.
5. Notation of Desh & Bihag Raags and Jhap Taal, Teen Taal and Kaharva Taals.
6. The life and contribution towards music by Nikhal Banaraji, Pandit Vishnu Digamber Paluskar.

### **PART-B**

1. To write the notations of Gats in Desh and Bihag Raags.
2. Notations on Prescribed Raags.
3. Description of Jhaptaal, Teentaal and Kaharva with Ekgun and Dugun Layakaries.

### **PRACTICAL STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in a batch for practical examination.

The examiner will set the question paper on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions:

1. Demonstration/performance of any one Raag out of the prescribed syllabus. The student will do the choice of Raag. It will be for 6 minutes and shall carry 15 marks.
2. Demonstration/performance of one Raag out of the prescribed syllabus. The examiner will do the choice of the Raag. It will be for 4 minutes and shall carry 15 marks.
3. Demonstration/performance of Taals in Ekgun and Dugun Layakaries by hand. It will be for 4 minutes, and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 10 marks.
5. Demonstration/performance regarding Alankar/National Anthem/non-detailed Raags. It will also be for 4 minutes and carry 10 marks.

### **SYLLABUS**

1. One Drut Gat with short Alaap, Toras and Jhalla in each of the following Raags : Desh and Bihag.
2. One Gat in Jhap Taal in Madhy laya with Toras in any one of the prescribed Raags.

3. One Dhun in any Raag.
4. Ability to demonstrate Jhap Taal by hand with reciting Bols in Ikgun and Dugun Laykari.
5. Ability to play Teen Taal and Kaharva on Tabla.
6. Ability to play the tune of National Anthem.
7. Knowledge of the Janpuri Raag (Aroh, Avroh and Paker)

## **29. MUSIC (TABLA)**

### **SEMESTER -I**

**THEORY : 2½ hrs.**

**PRACTICAL : 20 minutes**

**Theory : 30 Marks**

**Practical : 40 Marks**

**CCE/Internal Assessment-10 Marks**

**Total Marks-80 Marks**

### **THEORY**

#### **STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Fourteen (14) Questions in total.
2. All Questions will be compulsory to attempt.
3. The Question Paper will consist of III Parts.

Part-I will consist of Eight (8) Objective type Questions (i.e. 1 to 8) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (8 × 1 = 8)

Part-II will consist of Four (4) Short Answer type Questions (i.e. 9 to 12) carrying three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (4 × 3 = 12)

Part-III will consist of Two (2) Essay type Questions (i.e. 13 & 14) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Five (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. (5 × 2 = 10)

### **SYLLABUS**

#### **PART-A**

1. Definition of the following :  
Uthan, Peshkar, Paran, Tehai, Duppli, Tippali, Rela, Nagma.
2. Principles of formation of Taal.
3. Essay on importance of Laya and Taal in music.
4. Comparative study of Tabla and Pakhawaj Vadan.
5. Biographical sketches of the following Tabla Maestro :



- (i) Pt. Kanthe Maharaj (ii) Pt. Shamta Prasad.

### **PART-B**

1. Introduction and notation of the following Taals with Ikgun, Dugun, Tigun and Chougun Layakarries :
  - (i) Rupak Taal
  - (ii) Jhap Taal
  - (iii) Ek Taal
2. Description and comparison of the following Taals :
  - (i) Teen Taal - Punjabi Theka
  - (ii) Deepchandi - Dhamar Taal
3. Notation of following material in Teen Taal and Jhap Taal:  
Peskhari, Kayada, Tehai, Paran, Rela and Tukra.
4. Recognition of Teen Taal Deepchandi, Punjabi Theka, Dhamar Taals through some Bols.

### **PRACTICAL STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in batch for practical examination.

The examiner will set the question paper on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/Performance of any one Taal out of the prescribed syllabus. The choice of the Taal will be of the student. It will be for 6 minutes and carry 10 marks.
2. Demonstration/Performance of one Taal from the prescribed syllabus. The choice will be of the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration/Performance of Padhant (Pronouncing the Bols of Taal) in Ikgun and Dugun Layakarries. It will be for 4 minutes and carry 10 marks.
4. Student will be given 4 varans of prescribed taals. He/she will have to recognise any two, it will be for 2 minutes and will carry 05 marks.
5. Any two laggies with Tihai in rupak Taal. It will be for 4 minutes and will carry 05 marks.

### **SYLLABUS**

1. Systematic solo performance of the following Taals :  
Ek Taal and Teen Taal.
2. To play Thekas in Ikgun and Dugun Layakarries in Rupak, Jhap and Ek Taal.
3. Recognition of Taals.
4. Ability to play Nagama on harmonium in any Taal of your Syllabus.

## **SEMESTER –II**

**THEORY : 3 hrs.**

**PRACTICAL : 20 minutes**

**Theory : 40 Marks**

**Practical : 60 Marks**

**CCE/Internal Assessment-20 Marks**

**Total : 120 Marks**

### **THEORY**

#### **STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Eighteen (18) Questions in total.
2. All Questions will be compulsory to attempt.
3. The Question Paper will consist of III Parts.  
Part-I will consist of Ten (10) Objective type Questions (i.e. 1 to 10) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (10 × 1 = 10)  
Part-II will consist of Six (6) Short Answer type Questions (i.e. 11 to 16) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (6 × 3 = 18)  
Part-III will consist of Two (2) Essay type Questions (i.e. 17 & 18) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Six (6) marks each and their answer should not exceed more than two pages of the Answer Sheet. (6 × 2 = 12)

### **SYLLABUS**

#### **PART-A**

1. Taal and its ten Parans.
2. Brief introduction of Gharanas of Tabla.
3. Principles of Tabla Solo Vadan.
4. Essay on Importance of Tabla in music.
4. Biographical sketches of the following Tabla Maestro :  
(i) Ustad Zakhir Hussian (ii) Ustad Laxaman Singh Seen

#### **PART- B**

1. Introduction and notation of the following Taals with Ikgun, Dugun, Tigun and Chougun Layakaries :  
(i) Deepchandi (ii) Teen Taal (iii) Punjabi Theka (Chhota Teen Taal)
2. Notation of Nagma in prescribed Taals.
3. Description and comparison of Rupak Taal- Tivra Taal.

4. Notation of following material in Rupak Taal:  
Peskhar, Kayada, Tehai, Paran, Rela and Tukra.
5. Recongnation of Rupak and Tivara Taal through some Bols.

### **PRACTICAL STRUCTURE OF THE QUESTION PAPER**

There should not be more than 9 students in batch for practical examination.

The examiner will set the question paper on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/Performance of any one Taal out of the prescribed Taals in the syllabus. The choice of the Taal will be of the student. It will be for 6 minutes and carry 15 marks.
2. Demonstration/Performance of one Taal from the prescribed syllabus. The choice will be of the examiner. It will be for 4 minutes and will carry 15 marks.
3. Demonstration/Performance of Padhant (Pronoucing the Bols of Taal) in Ikgun and Dugun Layakaries. It will be for 4 minutes and carry 10 marks.
4. Student will be given 4 varans of prescribed taals. He/she will have to recognise any two, it will be for 2 minutes and will carry 10 marks.
5. Any two laggies with Tihai in rupak Taal. It will be for 4 minutes and will carry 10 marks.

### **SYLLABUS**

1. Systematic solo performance of the following Taals:  
Teewra and Rupak.
2. Few Laggis in Rupak Taal.
3. To play Thekas in Ikgun and Dugun Layakaries in Deepchandi, Teen Taal and Chhota Teen Taal.
4. Ability to Padhant Showing Tali & Khali of Taals in Ikgun and Dugun Layakaries.
5. Tuning of Tabla.
6. Ability to play Nagama on harmonium in any Taal of your Syllabus.

## **30. DANCE SEMESTER - I**

**THEORY : 2½ hrs.**  
**PRACTICAL : 20 minutes**

**Theory : 30 Marks**  
**Practical : 40 Marks**

**THEORY**  
**STRUCTURE OF THE QUESTION PAPER**

1. The Question Paper will comprise of Fourteen (14) Questions in total.
2. All Questions will be compulsory to attempt.
3. The Question Paper will consist of III Parts.  
Part-I will consist of Eight (8) Objective type Questions (i.e. 1 to 8) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (8 × 1 = 8)  
Part-II will consist of Four (4) Short Answer type Questions (i.e. 9 to 12) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (4 × 3 = 12)  
Part-III will consist of Two (2) Essay type Questions (i.e. 13 & 14) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Five (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. (5 × 2 = 10)

**SYLLABUS**  
**PART-A**

1. Knowledge of the Kathak Dance.
2. Definition of the following terms:  
Laya, Taal, Theka, Tora, Paran, Chakkardaraparan, Kavita, Gat-nikas.
3. Knowledge of Hasta Mudras (Sanyukta) based on Abhinaya Darpana.

**PART-B**

1. Definition and comparative study of Teen Taal and Jhap Taal.
2. Ability to write the following material in prescribed Taals given below:-  
Teen Taal : One Thaata, One Amad, Two Tukras, One Salami, One Paran, Two Toras, One Kavita.
3. Ability to recognise the Layakari (Ikgun, Dugun, Tigun and Chougun) through some Bole from Teen Taal.

**PRACTICAL**  
**STRUCTURE OF THE QUESTION PAPER**

The examiner will set the question paper on the spot. While setting the question paper in practical, examiner must consider the syllabus in theory and will follow instructions.

1. A systematic dance performance in any Taal from the prescribed syllabus as per the choice of the student. It will be for 6 minutes and will carry 10 marks.
2. A systematic dance performance in any Taal from the prescribed syllabus as per the choice of the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration/performance of any Taal in Ikgun and Dugun Layakaries. It will be for 4 minutes and will carry 10 marks.
4. Student will be given some Bols out of the prescribed Taals. He/She will have to recognies 2 out of these. It will be for 2 minutes and will carry 05 marks.
5. Padhant of prescribed Taal and Layakaries on hand. It will be for 4 minutes and will carry 05 marks.

## **SYLLABUS**

### **Systematic performance of the following:**

1. Teen Taal
  - (a) Four varieties of advance Tatkar, in Ikgun and Dugun Layakaries.
  - (b) One Thaat
  - (c) One Amad
  - (d) Two Simple Tukras
  - (e) One Salami
  - (f) One Paran
  - (g) One Kavitt
2. Padhant of Thekas of Teen Taal in Ikgun, Dugun and Chougun Layakaries by hand.
3. Padhant of all material in Teen Taal by hand.

## **SEMESTER -II**

**THEORY : 3 hrs**

**PRACTICAL : 20 minutes**

**Theory : 40 Marks**

**Practical : 60 Marks**

**CCE/Internal Assessment-20 Marks**

**Total : 120 Marks**

### **THEORY**

#### **STRUCTURE OF QUESTION PAPER**

1. The Question Paper will comprise of Eighteen (18) Questions in total.
2. All Questions will be compulsory to attempt.
3. The Question Paper will consist of III Parts.

Part-I will consist of Ten (10) Objective type Questions (i.e. 1 to 10) carrying one (1) mark each. The answer of each Question should not exceed more than one sentence. (10 × 1 = 10)

Part-II will consist of Six (6) Short Answer type Questions (i.e. 11 to 16) carrying Three (3) marks each. The answer of each Question should be given in 10 to 15 lines. (6 × 3 = 18)

Part-III will consist of Two (2) Essay type Questions (i.e. 17 & 18) with Internal Choice covering both Part-A & Part-B of the Syllabus. These Questions will carry Six (6) marks each and their answer should not exceed more than two pages of the Answer Sheet. (6 × 2 = 12)

## **SYLLABUS PART-A**

1. Knowledge of the following dances:
  - (a) Bhartata Natayam
  - (b) Lasya
2. Life sketch of Udey Shanker.
3. Knowledge of Rasa and Bhava and their application in Dance.
4. Knowledge of folk dance of Punjab.

## **PART-B**

1. Ability to write the following material in prescribed Taals given below:  
Jhap Taal : One Thaat, One Tehai, One Amad, One Salami, One Tora.
2. Ability to recognise the Layakari (Ikgun, Dugun, Tigun and Chougun) through some Bole from Jhap Taal.

## **PRACTICAL STRUCTURE OF QUESTION PAPER**

The examiner will set the question paper on the spot. While setting the question paper in practical, examiner must consider the syllabus in theory and will follow instructions.

1. A systematic dance performance in any Taal from the prescribed syllabus as per the choice of the student. It will be for 6 minutes and will carry 15 marks.
2. A systematic dance performance in any Taal from the prescribed syllabus as per the choice of the examiner. It will be for 4 minutes and will carry 15 marks.
3. Demonstration/performance of any Taal in Ikgun and Dugun Layakaries. It will be for 4 minutes and will carry 10 marks.

4. Student will be given some Bols out of the prescribed Taals. He/She will have to recognise 2 out of these. It will be for 2 minutes and will carry 10 marks.
5. Padhant of prescribed Taal and Layakaries on hand. It will be for 4 minutes and will carry 10 marks.

## **SYLLABUS**

### **Systematic performance of the following:**

1. Jhap Taal
  - (a) One Thaat (b) One Tehai (c) One Amad (d) One Salami (e) One Tora. (b)
2. Padhant of Thekas of Jhap Taal in Ikgun, Dugun and Chougun Layakaries by hand.

## **31. PHILOSOPHY**

### **SEMESTER-1**

**Time: 2 ½ Hours**

**Theory : 55 Marks**  
**CCE/Int. Asst. 25 Marks**  
**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be three Section i.e A,B & C of the question paper
2. In Section A, 11 very short answer type questions will be set. The Candidates are required to attempt all questions, answer to each question should be in one line, and carry one mark each. 11x1=11
3. In Section B, there will be 8 questions in all, candidates are required to attempt 6 questions out of these. Answer to each question will be in 4-5 lines. Each question will carry 4 marks. 6x4=24
4. In Section C, there will be two questions with 100% internal choice Answer to each question will be 3-4 pages. Each question will carry 10 marks. 2x10=20
5. All units of the syllabus should be given adequate representation in the question paper.

## **SYLLABUS**

- (i) Scientific Method: its nature; difference between this method and common sense thinking.
- (ii) Hypothesis: Its meaning, its place in scientific method; formulation of a relevant hypothesis.

- (iii) Explanation: its meaning, popular and scientific explanation, kinds and limits of scientific explanation.

## **SEMESTER-II**

**Time: 3 Hours**

**Theory : 85 Marks**  
**CCE/Int. Asst. 35 Marks**  
**Total : 120 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be three Section i.e A, B & C of the question paper
2. In Section A, 15 very short answer type questions will be set. The Candidates are required to attempt all questions, answer to each question should be in one line, and carry one mark each.  $15 \times 1 = 15$
3. In Section B, there will be 12 questions in all, candidates are required to Attempt 10 questions out of these. Answer to each question will be in 4-5 lines. Each question will carry 4 marks.  $10 \times 4 = 40$
4. In Section C, there will be three questions with 100% internal choice Answer to each question will be 3-4 pages. Each question will carry 10 marks.  $3 \times 10 = 30$
5. All units of the syllabus should be given adequate representation in the question paper.

## **SYLLABUS**

- (i) Propositions: Meaning /traditional, analysis of propositions, Various Divisions of propositions. Inference: Its Nature and Kinds-Immediate Inference, opposition, observation and conversion.
- (ii) Knowledge: Sources of Knowledge, Nature and theories of truth.
- (iii) Schools of Philosophy: Idealism and Materialism.
- (iv) Indian Philosophy: Its nature and salient features.
  - (a) The Philosophy of Bhagwad-Gita-Karma Yoga.
  - (b) Sikhism: Its salient features; concepts of Sewa.

## **32. EDUCATION**

### **SEMESTER-I**

**Time : 2 ½ Hours**

**Theory : 55 Marks**  
**CCE/Int. Asst. 25 Marks**  
**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be three Section i.e A,B & C of the question paper



2. In Section A, 11 very short answer type questions will be set. The Candidates are required to attempt all questions, answer to each question should be in one line, and carry one mark each.  $11 \times 1 = 11$
3. In Section B, there will be 8 questions in all, candidates are required to attempt 6 questions out of these. Answer to each question will be in 4-5 lines. Each question will carry 4 marks.  $6 \times 4 = 24$
4. In Section C, there will be two questions with 100% internal choice Answer to each question will be 3-4 pages. Each question will carry 10 marks.  $2 \times 10 = 20$
5. All units of the syllabus should be given adequate representation in the question paper.

### **SYLLABUS**

Principles and Techniques of Education.

Unit I : Education in ancient and modern India.

- Unit II : (a) Educational Structure : Primary to University :  $(10+2+3)$   
 (b) Teaching Aids- Chart, Models, Computers, Radio & Television, Chalk, Black Board, Posters, Cartoon, Projections.  
 (c) Methods of Teaching: Lecture-method, Discussion-method, Project- method, Demonstration- method.  
 (d) Teacher, his qualities and preparation.

### **SEMESTER-II**

**Time : 3 Hours**

**Theory : 85 Marks**  
**CCE/Int. Asst. 35 Marks**  
**Total : 120 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be three Section i.e A,B & C of the question paper
2. In Section A, 15 very short answer type questions will be set. The Candidates are required to attempt all questions, answer to each question should be in one line, and carry one mark each.  $15 \times 1 = 15$
3. In Section B, there will be 12 questions in all, candidates are required to Attempt 10 questions out of these. Answer to each question will be in 4-5 lines. Each question will carry 4 marks.  $10 \times 4 = 40$
4. In Section C, there will be three questions with 100% internal choice Answer to each question will be 3-4 pages. Each question will carry 10 marks.  $3 \times 10 = 30$
5. All units of the syllabus should be given adequate representation in the question paper.

### **SYLLABUS**

- Unit-1 Education and Society : Relation between the two.
- Unit-2 Educational Psychology : Its meaning and Scope: its importance for the teacher.
- Unit-3 Management of Education :
- (a) District Level : D.E.O Secondary  
: D.E.O Primary  
: B.P.E.O.
- (b) State Level : Education Ministry, Education Directorates,  
  
College Secondary Education, Primary Education  
Allied organizations :  
(a) S.C.E.R.T., (b) S.I.S.E.
- (c) Centre Level : Ministry of Education, Central Secretariat and allied  
institutions. N.C.E.R.T, C.B.S.E. and U.G.C

### 33. ਭੂਗੋਲ

#### ਸਮੇਸਟਰ - I

ਸਮਾਂ: 2:30 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ: 55 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ: 25 ਅੰਕ

ਕੁੱਲ: 80 ਅੰਕ

#### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ 24 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ, ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ
1. ਪ੍ਰਸ਼ਨ ਨੰ: 1 ਤੋਂ 10 ਇੱਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਇੱਕ ਸ਼ਬਦ ਜਾਂ ਇੱਕ ਲਾਈਨ ਵਿੱਚ ਦਿਉ। 1×10=10
  2. ਪ੍ਰਸ਼ਨ ਨੰ: 11 ਤੋਂ 15 ਤੱਕ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 20-25 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦਿਉ। 2×5=10
  3. ਪ੍ਰਸ਼ਨ ਨੰ: 16 ਤੋਂ 20 ਤੱਕ ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 50-60 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। 3×5=15
  4. ਪ੍ਰਸ਼ਨ ਨੰ: 21 ਅਤੇ 22, ਪੰਜ-ਪੰਜ ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 150-175 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਨ੍ਹਾਂ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ। 5×2=10
  5. ਪ੍ਰਸ਼ਨ ਨੰ: 23, ਭਾਰਤ ਦੇ ਨਕਸ਼ੇ ਨਾਲ ਸਬੰਧਤ ਹੋਵੇਗਾ। 5×1=5
  6. ਪ੍ਰਸ਼ਨ ਨੰ: 24, ਸੰਸਾਰ ਦੇ ਨਕਸ਼ੇ ਨਾਲ ਸਬੰਧਤ ਹੋਵੇਗਾ। 5×1=5

ਨੋਟ: ਨੇਤਰਹੀਣ ਵਿਦਿਆਰਥੀ ਨਕਸ਼ਾ ਭਰਨ ਦੀ ਥਾਂ ਇਹਨਾਂ ਸਥਾਨਾਂ, ਕੇਂਦਰਾਂ ਦੀ ਸਥਿਤੀ ਸਪਸ਼ਟ ਰੂਪ ਵਿੱਚ ਲਿਖਣਗੇ।

### ਪਾਠਕ੍ਰਮ

ਸੰਸਾਰ ਦੇ ਆਰਥਿਕ ਭੂਗੋਲ ਵਿੱਚ ਭਾਰਤ ਦਾ ਵਿਸ਼ੇਸ਼ ਹਵਾਲਾ ਦਿੰਦੇ ਹੋਏ

1. ਆਰਥਿਕ ਭੂਗੋਲ ਦਾ ਸਰੂਪ ਅਤੇ ਮੱਹਤਵ।
2. ਧਰਤੀ ਦੇ ਮੁੱਖ ਸਾਧਨ, ਸਾਧਨਾਂ ਦਾ ਵਰਗੀਕਰਨ, ਜੀਵ ਅਤੇ ਨਿਰਜੀਵ ਸੋਮੇ, ਮੁੱਕ ਤੇ ਅਮੁੱਕ, ਸੰਭਾਵਤ ਅਤੇ ਵਿਕਸਤ ਸਾਧਨ, ਕੱਚੇ ਮਾਲ ਅਤੇ ਉਹਨਾਂ ਦੇ ਸਾਧਨ, ਖੇਤੀਬਾੜੀ ਅਤੇ ਚਾਰਾਗਾਹੀ ਸਾਧਨ, ਖਣਿਜ ਪਦਾਰਥ ਅਤੇ ਉਦਯੋਗਿਕ ਸਾਧਨ।
3. ਧਰਤੀ ਦੇ ਮੁੱਖ ਕੁਦਰਤੀ ਸਾਧਨਾਂ ਦੀ ਵੰਡ; ਜੰਗਲ, ਮੱਛੀਆਂ, ਖਣਿਜ ਪਦਾਰਥ-ਲੋਹਾ, ਐਲੂਮੀਨੀਅਮ, ਮੈਂਗਨੀਜ਼, ਤਾਂਬਾ, ਕੋਲਾ, ਪੈਟਰੋਲੀਅਮ, ਪਣ-ਬਿਜਲੀ।
4. ਜਨਸੰਖਿਆ : ਵਸੋਂ ਦਾ ਵਾਧਾ, ਵੰਡ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕ : ਭੌਤਿਕ, ਸਭਿਆਚਾਰਕ, ਆਰਥਿਕ, ਰਾਜਨੀਤਿਕ, ਧਾਰਮਿਕ ਅਤੇ ਸਮਾਜਿਕ। ਵਸੋਂ ਘਣਤਾ ; ਵੱਧ, ਵਿਰਲੀ ਅਤੇ ਘੱਟ ਵਸੋਂ ਘਣਤਾ।

### ਪ੍ਰੈਕਟੀਕਲ (ਮੈਪ ਵਰਕ)

ਯੂਨਿਟ-1 ਪੈਮਾਨਾ: ਸਧਾਰਨ, ਤੁਲਨਾਤਮਕ, ਕਦਮਚਾਲ, ਕਰਣਾਤਮਕ, ਵਕਤ ਪੈਮਾਨਾ। ਨਕਸ਼ੇ ਨੂੰ ਛੋਟਾ ਤੋਂ ਵੱਡਾ ਕਰਨ (ਵਰਗ ਤਰੀਕੇ ਨੂੰ ਛੱਡ ਕੇ)।

ਯੂਨਿਟ-2 ਵਿਤਰਨ/ ਅਨੁਪਾਤਿਕ ਨਕਸ਼ੇ, ਬਿੰਦੂ ਦੀ ਵਰਤੋਂ, ਵਰਣਮਾਤਰੀ ਤਰੀਕੇ ਅਤੇ ਸਮਮੁੱਲ ਰੇਖਾਵਾਂ।

### ਸਮੈਸਟਰ - II

ਸਮਾਂ: 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ: 65 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ: 30 ਅੰਕ

ਪ੍ਰਯੋਗੀ ਪੇਪਰ: 25 ਅੰਕ

ਕੁੱਲ: 120 ਅੰਕ

### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ 29 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ, ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ

1. ਪ੍ਰਸ਼ਨ ਨੰ: 1 ਤੋਂ 10 ਇੱਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਇੱਕ ਸ਼ਬਦ ਜਾਂ ਇੱਕ ਲਾਈਨ ਵਿੱਚ ਦਿਉ। 1×10=10
2. ਪ੍ਰਸ਼ਨ ਨੰ: 11 ਤੋਂ 20 ਤੱਕ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 20-25 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦਿਉ। 2×10=20

3. ਪ੍ਰਸ਼ਨ ਨੰ: 21 ਤੋਂ 25 ਤੱਕ ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 50-60 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। 3×5=15
  4. ਪ੍ਰਸ਼ਨ ਨੰ: 26 ਅਤੇ 27, ਪੰਜ-ਪੰਜ ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 150-175 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਨ੍ਹਾਂ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ। 5×2=10
  5. ਪ੍ਰਸ਼ਨ ਨੰ: 28, ਭਾਰਤ ਦੇ ਨਕਸ਼ੇ ਨਾਲ ਸਬੰਧਤ ਹੋਵੇਗਾ। 5×1=5
  6. ਪ੍ਰਸ਼ਨ ਨੰ: 29, ਸੰਸਾਰ ਦੇ ਨਕਸ਼ੇ ਨਾਲ ਸਬੰਧਤ ਹੋਵੇਗਾ। 5×1=5
- ਨੋਟ:** ਨੇਤਰਹੀਣ ਵਿਦਿਆਰਥੀ ਨਕਸ਼ਾ ਭਰਨ ਦੀ ਥਾਂ ਇਹਨਾਂ ਸਥਾਨਾਂ, ਕੇਂਦਰਾਂ ਦੀ ਸਥਿਤੀ ਸਪਸ਼ਟ ਰੂਪ ਵਿੱਚ ਲਿਖਣਗੇ।

### ਪਾਠ-ਕ੍ਰਮ

1. **ਸੰਸਾਰ ਦੇ ਮੁੱਖ ਸਾਧਨਾਂ ਦਾ ਵਿਤਰਨ :** ਖੇਤੀਬਾੜੀ ਕਿਸਮਾਂ : ਸਥਾਨਅੰਤਰੀ ਅਤੇ ਸਥਾਈ ਖੇਤੀ, ਨਿਰਬਾਹ ਖੇਤੀ ਅਤੇ ਵਪਾਰਕ ਖੇਤੀ, ਸੰਘਣੀ ਅਤੇ ਵਿਸਤ੍ਰਿਤ ਖੇਤੀ, ਬਾਗਾਤੀ ਖੇਤੀ, ਰਲੀ ਮਿਲੀ ਖੇਤੀ। ਪਸ਼ੂ ਪਾਲਣ : ਡੇਰੀ ਫਾਰਮਿੰਗ, ਟਰੱਕ ਫਾਰਮਿੰਗ ਅਤੇ ਬਾਗਬਾਨੀ, ਨਿੱਜੀ, ਸਹਿਕਾਰੀ ਅਤੇ ਸਾਂਝੀ ਖੇਤੀ, ਫਸਲਾਂ, ਕਣਕ, ਚਾਵਲ, ਕਪਾਹ, ਗੰਨਾ, ਚਾਹ, ਕਾਫੀ, ਰਬੜ।
2. **ਵਸਤੂ ਨਿਰਮਾਣ ਉਦਯੋਗ :** ਸਥਾਪਨ ਕਰਨ ਲਈ ਲੋੜੀਂਦੀਆਂ ਹਾਲਤਾਂ, ਉਦਯੋਗਾਂ ਦਾ ਵਰਗੀਕਰਨ; ਖੇਤੀਬਾੜੀ ਤੇ ਅਧਾਰਿਤ ਉਦਯੋਗ, ਘਰੇਲੂ ਉਦਯੋਗ, ਛੋਟੇ, ਦਰਮਿਆਨੇ ਅਤੇ ਵੱਡੇ ਪੈਮਾਨੇ ਦੇ ਉਦਯੋਗ, ਨਿੱਜੀ ਮਲਕੀਅਤ, ਸਹਿਕਾਰੀ ਸਾਂਝਾ ਖੇਤਰ, ਸਰਕਾਰੀ ਖੇਤਰ, ਬਹੁਦੇਸ਼ੀ ਖੇਤਰ, ਲੋਹਾ ਅਤੇ ਇਸਪਾਤ ਉਦਯੋਗ, ਖੰਡ ਉਦਯੋਗ, ਸੂਤੀ ਕੱਪੜਾ, ਸਮੁੰਦਰੀ ਜਹਾਜ਼।
3. **ਸੰਸਾਰ ਦੇ ਪ੍ਰਮੁੱਖ ਆਵਾਜਾਈ ਦੇ ਸਾਧਨ :** ਸੜਕ ਮਾਰਗ, ਰੇਲ ਮਾਰਗ, ਹਵਾਈ ਮਾਰਗ, ਜਲ ਮਾਰਗ, ਪਾਇਪ ਲਾਈਨ, ਟਰਾਂਸ ਸਾਇਬੇਰੀਅਨ, ਕਨੇਡੀਅਨ, ਪੈਸੇਫਿਕ ਰੇਲਵੇ, ਟਰਾਂਸ ਐਡੀਅਨ, ਟਰਾਂਸ-ਆਸਟਰੇਲੀਆਈ, ਸੁਏਜ਼ ਨਹਿਰ, ਪਨਾਮਾ ਨਹਿਰ।

### ਪ੍ਰੈਕਟੀਕਲ (ਮੈਪ ਵਰਕ)

- ਯੂਨਿਟ-1 ਅੰਕੜਾ ਚਿੱਤਰਨ : ਲਾਇਨ ਅਤੇ ਬਾਰ ਗ੍ਰਾਫ, ਆਇਤਾਕਾਰ ਚਿੱਤਰ, ਪਾਈ ਜਾਂ ਚੱਕਰ ਚਿੱਤਰਨ ਆਦਿ।
- ਯੂਨਿਟ-2 ਨਕਸ਼ਾ ਪ੍ਰਖੇਪ ਭੂਮਿਕਾ, ਅਕਸ਼ਾਂਸ਼ ਤੇ ਦਿਸ਼ਾਂਤਰ ਰੇਖਾਵਾਂ, ਸਧਾਰਨ ਸਿਲੰਡਰੀਕਲ ਪ੍ਰਖੇਪ: ਸਧਾਰਨ, ਸਮਖੇਤਰਫਲੀ ਸਿਲੰਡਰੀ ਪ੍ਰਖੇਪ, ਮਰਕੇਟਰ ਪ੍ਰਖੇਪ, ਕੋਨਾਕਾਰ ਪ੍ਰਖੇਪਾਂ (ਸਿਖਰ ਬਿੰਦੂ ਪ੍ਰਖੇਪ) ਕੇਵਲ ਜਾਣ ਪਛਾਣ।

### ਭੂਗੋਲ -ਪ੍ਰੈਕਟੀਕਲ (ਮੈਪਵਰਕ)

ਸਮਾਂ-3 ਘੰਟੇ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

25 : ਅੰਕ

1. ਪ੍ਰੈਕਟੀਕਲ ਮੈਪਵਰਕ ਦੀ ਪ੍ਰੀਖਿਆ ਬਾਹਰੀ ਪ੍ਰੀਖਿਅਕ ਵਲੋਂ ਲਈ ਜਾਵੇਗੀ। ਜਿਸ ਵਿੱਚ ਇੱਕ ਗਰੁੱਪ ਵਿੱਚ 20 ਤੋਂ ਵੱਧ ਪ੍ਰੀਖਿਆਰਥੀ ਨਹੀਂ ਹੋਣੇ ਚਾਹੀਦੇ। ਪ੍ਰੈਕਟੀਕਲ ਪ੍ਰੀਖਿਅਕ, ਮੌਕੇ ਤੇ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਸੈਟ ਕਰੇਗਾ ਅਤੇ ਉੱਤਰ ਪੱਤਰੀਆਂ ਦਾ ਮੁਲਾਂਕਣ ਵੀ ਉਥੇ ਹੀ ਮੌਕੇ ਤੇ ਹੋਵੇਗਾ।
2. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ 3 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਜਿਸ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 5 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।
3. viva voce ਅਤੇ ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਬਣਾਏ ਗਏ, ਅਭਿਆਸ ਆਦਿ ਦੀ ਤਿਆਰ ਕੀਤੀ ਫਾਇਲ ਦੇ ਕ੍ਰਮਵਾਰ 4 ਅਤੇ 3 ਅੰਕ ਹੋਣਗੇ।
4. ਇਸ ਪੇਪਰ ਦਾ ਮੁੱਖ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਨਕਸ਼ੇ ਬਣਾਉਣ ਵਿੱਚ ਵਰਤੇ ਗਏ ਵੱਖ-ਵੱਖ ਤੱਥਾਂ ਦੀ ਕੁਸ਼ਲ ਸਮਝ ਪੈਦਾ ਕਰਨਾ ਹੈ। ਇਸ ਲਈ ਘੱਟ ਤੋਂ ਘੱਟ ਦੋ ਪ੍ਰਸ਼ਨ ਚਿਤਰਾਂ/ਡਰਾਇੰਗ ਸਬੰਧੀ ਪਹਿਲੇ ਅਤੇ ਦੂਸਰੇ ਸਮੈਸਟਰ ਦੇ ਪ੍ਰੈਕਟੀਕਲ ਮੈਪਵਰਕ ਦੇ ਪਾਠ ਕ੍ਰਮ ਤੇ ਅਧਾਰਿਤ ਹੋਣੇ ਚਾਹੀਦੇ ਹਨ।

ਨੋਟ- ਪ੍ਰੈਕਟੀਕਲ, ਮੈਪਵਰਕ ਦੇ ਪੂਰੇ ਪਾਠਕ੍ਰਮ ਤੇ ਅਧਾਰਿਤ ਦੂਜੇ ਸਮੈਸਟਰ ਵਿੱਚ ਲਿਆ ਜਾਵੇਗਾ।

## 34. DEFENCE STUDIES SEMESTER - I

Time : 2½ Hrs.

Theory Paper : 55 Marks

Internal Assessment/CCE : 25 Marks

Total : 80 Marks

### STRUCTURE OF QUESTIONS PAPER (THEORY)

1. There will be 13 Questions in all.
2. All questions will be Compulsory.
3. There will be 5 questions of one Mark each & these questions will be objective type. 5 x1=5
4. There will be Six questions of 5 Marks each. At least 3 questions from each group. 6x5=30
5. There will be 2 questions of 10 Marks each with internal choice & one question from each group. 2x10=20

### THEORY SYLLABUS

#### Group- A

1. Elements of Strategy : Various definitions, distinctions between grand strategy, strategy and tactics type of strategy.

#### Group - B

1. Armed forces of India's neighbours with special reference to Pakistan, China, Nepal, Bangladesh, and Sri Lanka.
2. Higher Defence Organization in India
  - (a) Defence Minister's committee.
  - (b) Chief of Staff's Committee.

### **VIVA VOCE (PRACTICAL)**

#### **Paper II**

**Note :** In viva voce paper the lecture will be of 15 Marks and interview of 15 Marks. Each student will give a lecture in presence of audience for 5-10 minutes on the topic of his own choice out of the topics in the syllabus.

1. **Lecture :** Each student will be required to give a talk (and not paper reading for 5-10 minutes) on any one of the under mentioned topics.
  - (a) Strategy of indirect approach.
  - (b) Elements of tactics.
  - (c) Role of Navy in India's Defence.
2. **Interview :** The examiner may ask the candidate any question from topics mentioned in the list of topics for lecture.

**Note :** No Board examination will be conducted for Practical (Viva Voce) at the end of Semester -I

Practical Examination will be conducted at the end of Semester - II

### **SEMESTER- II**

**Time : 3 Hrs**

**Time : 3 Hrs**

**Theory Paper : 65 Marks**

**Oral Paper (Viva Voce) : 25 Marks**

**Internal Assessment/CCE : 30 Marks**

**Total : 120 Marks**

#### **STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be 13 Questions in all.
2. All questions will be compulsory.
3. There will be 10 questions of one Mark each & these questions will be objective type. 10 x1=10
4. There will be Seven questions of 5 Marks each. At least 3 questions from each group. 7x5=35
5. There will be 2 questions of 10 Marks each with internal choice & one question from each group. 2x10=20

### **SYLLABUS (THEORY)**

### **Group-A**

2 Elements of Evolution of tactics : means of collection and interpreting information troop movements, operational and verbal orders, attack, defence and withdrawal.

### **Group-B**

1. Higher Defence organizations in India.
  - (a) Defence Committee of the Cabinet.
  - (b) National Defence Council.
  - (c) Powers of the President in relation to armed forces.
2. Organization of India's Armed forces.
  - (a) Equivalent ranks in the Armed forces.
  - (b) Role and Characteristic of Army, Navy and Air Force.
  - (c) Army : Integrated Headquarters, static and field formation, Elementary knowledge of the following weapons.  
5.56mm INSAS Rifle, 7.62mm MMG, LMG 9 mm Carbine, Grenade, Mortar, Rocket Launcher, Antitank weapons : Tanks and APC
  - (d) Navy : Headquarters, Commands, Type of Ships and Submarines.
  - (e) Air Force, Headquarters, Commands, Types of service, Air Crafts of India.

## **VIVA VOCE (PRACTICAL)**

### **Paper II**

**Note :** In viva voce paper the lecture will be of 15 marks and interview of 15 marks. Each student will give a lecture in presence of audience for 5-10 minutes on the topic of his own choice out of the topics in the syllabus.

**1. Lecture :** Each student will be required to give a talk (and not paper reading for 5-10 minutes) on any one of the under mentioned topics.

- (a) Static and field formations.
- (b) Armed Forces of Pakistan.
- (c) Types of Service Air Crafts of India.
- (d) Armed Forces of china.

**2. Interview :** The examiner may ask the candidate any questions from topics mentioned in the list of topics for lecture.

**Note :** Practical Examination by the Board will be conducted at the end of Semester -II from the whole of the Syllabus meant for Practical (Viva Voce).

## **35. PSYCHOLOGY**

### **SEMESTER -I**

**Time : 2½ hrs.**

**Theory : 55 Marks**

**CCE/IA :25 Marks**  
**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. The question paper will comprise of 12 questions in total.
  2. All questions will be compulsory to attempt.
  3. The question paper will consist of three parts, with each part covering the whole syllabus of semester -I
- Part -I will consist of five (5) objective types questions (i.e. 1 to 5) carrying one mark each. The answer of each question should not exceed more than one sentence.
- Part- II will consist of four (4) short answer type questions (i.e. 6 to 9) carrying five marks each. The answer of each question should be given in ten to fifteen lines.
- Part-III will consist of three (3) essay type questions (i.e. 10 to 12) with internal choice covering each unit. These questions will carry ten marks each and answer of each question should not exceed more than three pages of the answer sheet.

### **SYLLABUS**

- Unit I** Growth and Development: Difference between Growth and Development, Principles of Growth and Development. Stages of Growth and Development Physical, Mental Emotional and Social, Characteristics of Adolescence, Effect of Heredity and Environment in Growth and Development.
- Unit II** Emotions : Definition, Concept and Characteristics of Emotions, Physical and Psysiological changes accompanying emotions. Difference between emotions and feelings, Important emotions: Fear, Anger and Aggression, Jealousy, Love, Happiness, Curiosity.
- Unit III** Motivation: Meaning, Definition and Characteristics of Motivated behaviour, Classes or types of Motives or Needs-Maslow's Hierarchy Instincts, Drives, Incentives and goals as Motives-Frustrations and Conflicts of Motives.

### **Experiments**

1. Muller Lyer Illusions
2. Maze learning.
3. Imagery Types.

**Note:** No Practical Examination will be conducted by the Board at the end of Semester -I.

### **SEMESTER -II**

**Time : 3 hrs.**

**Theory : 65 Marks**  
**Practical: 25 Marks**  
**CCE/IA :30 Marks**  
**Total : 120 Marks**



## STRUCTURE OF QUESTION PAPER

1. The question paper will comprise of 13 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of three parts, with each part covering the whole syllabus of semester –II.  
Part –I will consist of five (5) objective types questions (i.e. 1 to 5) carrying one mark each. The answer of each question should not exceed more than one sentence.  
Part- II will consist of four (4) short answer type questions (i.e. 6 to 9) carrying five marks each. The answer of each question should be given in ten to fifteen lines.  
Part-III will consist of four (4) essay type questions (i.e. 10 to 13) with internal choice covering each unit. These questions will carry ten marks each and answer of each question should not exceed more than three pages of the answer sheet.

## SYLLABUS

- Unit-IV** Thinking, Reasoning and Problem Solving : Definition, types and stages of Thinking-images and Thinking – Languages and Thinking. Reasoning - Definition, Characteristics, steps and types of Reasoning - Problem solving -Creative thinking - Concepts : Definition, type of formation of concepts.
- Unit-V** Delinquency and Mental Health: Delinquent Behavior, Definition, Characteristics, Causes, Remedial and Preventive Measures - Mental Health: Meaning and Definition - Characteristics of a 'Mentally healthy person, Defence Mechanism.
- Unit-VI** Intelligence : Definition, Nature and theories : Spearman's two theory and Thrnstone's Primary Mental Abilities theory - Concept of I.Q. Measurement of Intelligence - Intelligence Tests - Relative Role of Heredity and Environment on the development of Intelligence.
- Unit-VII** Personality: Definition, Nature, Characteristics and Traits of Personality Classification of Personality: Sheldon's Jung's and Eysenck's Classifications-Theories of Personality, Freud's Psychoanalytical theory - Jung's Analytical theory, Allport's theory of cardinal traits, Carl Roger's theory of self, Adler's theory of will power.
- Unit-VIII** Statistics: Frequency distribution, Mean, Median, Mode, Mean Deviation, Standard Deviation, Quartile Deviation. (Only numerical will be set from this unit.)

### Experiments

- Problem Solving

- Card Sorting
- Intelligence test Verbal
- intelligence test Non-Verbal
- Personality Inventory

**Note:-** Practical Examination (Practical, Semester I - II) shall be conducted by the Board at the end of Semester-II.

## **36. HOME SCIENCE SEMESTER -I**

**Theory : 2<sup>1</sup>/<sub>2</sub> Hours**  
**Practical Time : 2.30 Hrs.**

**Theory: 30 Marks**  
**Practicals : 40 Marks**  
**CCE/Int. Asst. : 10 Marks**  
**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER(THEORY)**

1. There will be one theory paper comprising of Eleven Questions. All questions will be compulsory.
2. There will be Two Sections in the question paper.

#### **SECTION-A (Foods & Nutrition)**

- (i) First question will be objective type with 10 Sub Questions of 1/2 Marks each. 10x1/2=5 Marks
- (ii) Next four (2-5) questions will be very short answer type carrying two marks each with specific answer. Answer should be approximately in 20-30 words. 4x2=8 Marks
- (iii) Sixth question will be long answer type of five marks with 100% internal choice. 5 Marks.

Answer should be in 150-200 words each.

#### **SECTION -B (Child Development & Mother Craft)**

- (iv) In this section first question (7) will be objective type (With 6 sub questions of 1/2 Marks each) 6x1/2=3 Marks
- (v) Next three questions (8-10) will be very short answer type carrying two marks each with specific answer. Answer should be approximately in 20-30 words each. 3x2= 6 Marks
- (vi) Last question (11) will be long answer type of Three marks with 100 % internal choice. 1x3= 3 Marks

3. Marks for each question should be indicated against it.
4. Objective type question may be one word to one line answer, or yes/no, Fill in the blank, True/ False or multiple choice.
5. The questions should be strictly from the prescribed syllabus subject to above mentioned guidelines.

**SYLLABUS (THEORY)**  
**SECTION-A (Foods and Nutrition)**

- 1 Definition: Food, Nutrients and Nutrition
- 2 Functions of Food
- 3 Nutrients: Study of composition, functions, requirements, effects of deficiency and food sources of these nutrients:
  - (a) Proteins
  - (b) Carbohydrates
  - (c) Fats
  - (d) Minerals
  - (e) Vitamins- A, B, C, D, E and K
  - (f) Water

**SECTION-B (Child Development and Mother Craft)**

1. Importance of pre-natal care
  - Signs of pregnancy
  - Discomforts during pregnancy
  - Physical and psychological care
  - Diet during pregnancy
- 2 Preparation for delivery at home and in the Hospital

**STRUCTURE OF QUESTION PAPER (PRACTICAL)**

**Time : 2½ Hours**

**40 : Marks**

There should not be more than 25 candidates in a group. The Practical question paper will consist of two sections. Distribution of Marks will be as follows:

**Section -A (Foods & Nutrition)**

1. Viva Voca, Notebook & Record 5 Marks
2. Any two preparation. 20 Marks

**Section-B (Child Development & Mother Craft)**

3. Record & Viva Voce 5 Marks
4. Any one practical 10 Marks

**SYLLABUS (PRACTICAL)**  
**SECTION-A (Foods and Nutrition)**

1. Market Surveys to collect following data- cost & availability of cereals, pulses, sugar, oils, fats, butter, bread, eggs, preserves, processed foods, vegetables, fruits, milk, meat, fish, poultry etc.
2. Weighing and measuring of raw and cooked food, Weight equivalents.
3. Planning & preparation of dishes
  - (a) Rich in proteins e.g Whole Dal preparation & groundnut preparation
  - (b) For enhancing Nutritive value
    - Cereal & Pulse combination e.g Missi Roti & Khichri
    - Cereal, Pulse, Vegetable combination e.g Nutritious Chapatti.
    - Fermented Food e.g Dosa, Bhatura, Idli
    - Germinated Pulse preparation of sprouted Whole Moong Dal

**SECTION-B (Child Development and Mother Craft)**

- 1 Four visits to children ward, health centre, baby welfare club and hospital or sick room to observe healthy and sick children and note the difference.
- 2 Immunization of infants and children
  - B.C.G.
  - Polio
  - D.P.T
  - Typhoid and Measles
  - Hepatitis
- 3 Preparation and folding of two types of Diapers.
- 4 Preparation of two toys /play material

**SEMESTER -II**

**Time : 3 Hours**  
**Time : 3 Hours**

**Theory :40 Marks**  
**Practical : 60 Marks**  
**CCE/Int. Asst.-20 Marks**  
**Total : 120 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be one theory paper comprising of Thirteen (13) questions. All questions will be compulsory.
2. There will be two sections in the question paper.

### **SECTION-A (Foods & Nutrition)**

- (i) First question will be objective type with 10 Sub Questions of  $\frac{1}{2}$  Marks each. 10x $\frac{1}{2}$ = 5 Marks
- (ii) Next three (2-4) questions will be very short answer type carrying two marks each with specific answer. Answer should be approximately in 20-30 words. 3 x2 = 6 Marks
- (iii) Next two (5-6) questions will be Short answer type carrying 3 Marks each. Answer should be in approximately in 60-80 words each. 2x3=6 Marks
- (iv) Next questions Q. No. 7 will be long answer type of five marks with 100% internal choice. 1x5=5 Marks  
Answer should be in 150-200 Words each.

### **SECTION -B (Child Development & Mother Craft)**

- (v) In this section first question (Q. No. 8) will be objective type with 6 sub questions of  $\frac{1}{2}$  Marks each. 6x $\frac{1}{2}$ =3 Marks
  - (vi) Next two questions (9-10) will be very short answer type carrying two marks each with specific answer. Answer should be in approximately 20-30 words each. 2x2= 4 Marks
  - (vii) Next two questions (11-12) will be short answer type, carrying 3 Marks each. 2x3= 6 Marks
  - (viii) Last question (13) will be long answer type of five marks with 100 % internal choice. 1x5= 5 Marks
3. Marks for each question should be indicated against it.
  4. Objective type question may be one word to one line answer, or yes/no, Fill in the blank, True/ False or multiple choice.
  5. The questions should be strictly from the prescribed syllabus subject to above mentioned guidelines.

### **SYLLABUS (THEORY)**

#### **SECTION -A (Foods & Nutrition)**

1. Digestion and absorption of food.
2. Balanced Diet- Definition and Planning of balanced diet for the family
3. Meal Planning for the Family
  - Factors effecting meal planning
  - Size and composition of the family
  - Food cost- availability, season etc.

Recommended dietary allowance for the various age groups, occupation and physiological states ( pregnancy , lactation & fever)

4. Reasons for cooking food
  - Methods of cooking
  - Moist heat: boiling, steaming & stewing
  - Dry heat : roasting, grilling & baking
  - Frying : Shallow and Deep
  - Effect of cooking on food
5. Food Preservation
  - a. Causes of food spoilage
  - b. Principles of food preservation
  - c. Methods of food preservation in home- heating, cooling (use of refrigerator and ice boxes), drying, preserving by pickling and preparing Squash & Jams

### **SECTION-B (Child Development & Mother Craft)**

1. Feeding
  - (a) Breast feeding
  - (b) Artificial feeding
  - (c) Weaning
2. Care of Child
  - (a) Clothing
  - (b) Bathing
  - (c) Value of regular habits, rest and exercise
3. Common ailments of children
  - a. Common cold
  - b. Digestive trouble ( Vomiting, Diarrhoea and Colic)
  - c. Skin trouble ( Prickly heat and Eczema)
  - d. Teething problems
4. Recreation for young children
  - a. Toys
  - b. Different play material
  - c. Nursery rhymes
  - d. Selection of books for children

### **STRUCTURE OF QUESTION OF PAPER (PRACTICAL)**

**Time : 3 Hours**

**60 : Marks**

There should not be more than 25 candidates in a group. The Practical question paper will consist of two sections. Distribution of Marks will be as follows.

#### **SECTION - A**

1. Viva Voce & Note book & Record 5 Marks
2. Any one combination for lunch or dinner-preparation from Practical Practical 4 & 5 30 Marks
3. Any one preparation from Practical 6 & 7 10 Marks

#### **SECTION - B**

4. Any one Practical from Practical 5 & 6 7 Marks
5. Any one preparation from Practical 7 & 8 8 Marks

### **SYLLABUS (PRACTICAL)**

#### **SECTION-A (Foods & Nutrition)**

4. Breakfast, Lunch and Dinner Dishes by preparation of cereals, legumes, vegetables, eggs, Chapati or Puri, Plain Rice or Vegetable Pulao, Rajmah, Meat Curry or Egg Curry and seasonal vegetables.
5. Desserts :
  - (d) Indian Kheer (of any type) and Halwa
  - (e) Western- Custard ( Plain or Fruit)
  - (f) Steamed Custard
6. Snacks- Pakora, Cutlets and Simple cake.
7. Chutneys-Tomato or Mango chutney and any one Squash and one Jam
8. Planning for packed lunch (School children) by using above Preparations only.

#### **SECTION-B (Child Development & Mother Craft)**

5. Disinfection of children's clothes
6. Sterilization of feeding bottles
7. Weaning foods e.g. orange juice, tomato soup, suji Kheer and custard
8. Preparation of Diets during Diarrhoea and Dysentery e.g preparation of whey, Soup, Apple stew and Khichri.

## **37. MODELLING AND SCULPTURE**

## SEMESTER-I

**Time : 8 hours**

**Practical : 80 Marks**

**Total : 80 Marks**

(Four hours for Part I Morning Session)

(Four hours for Part II Evening Session)

### STRUCTURE OF QUESTIONS PAPER

- (i) This paper will be conducted by the Practical Examiner according to the Date sheet. Part I will be conducted in Morning session and part II conducted in Evening session with one hour break. Each session will be of 4 hours. The paper setter will be set two separate question paper for Part I and part II respectively.
- (ii) The paper consists of three parts. Part-I is about imaginative composition and it carries 34 marks. In this part question will be set with choice to make bird or animal.
- (iii) The Part-II is about portrait study. The candidate will be asked question about head study from life or cast. This part will carry 34 marks.
- (iv) The Part-III is about Sessional work. It carries 12 Marks.

### INSTRUCTIONS FOR EVALUATION

#### PART-I

Composition	11 Marks
Technique and Clarity of Expression	12 Marks
Finishing and Clarity	11 Marks
Total	34 Marks

#### PART-II

Composition	11 Marks
Technique and Clarity of Expression	12 Marks
Finishing and Clarity	11 Marks
Total	34 Marks

#### PART-III

Practical Examiner will examine the articles.	12 Marks
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### SYLLABUS

#### PART-I

**Composition:**

**34 : Marks**

Imaginative simple composition on a given subject such as Simple Birds and Animals figures.



## **PART-II**

### **Portrait Study:**

**34 : Marks**

Modelling of Human head from life or cast (Simple)

## **PART-III**

**Sessional Work:** At least eight articles should be prepared during the session.

Marks: 12

## **SEMESTER-II**

**Time: 8 Hours**

**Practicals : 120 Marks**

**Total : 120 Marks**

**(Four hours for Part I Morning Session)**

**(Four hours for Part II Evening Session)**

### **STRUCTURE OF QUESTION PAPER**

- (i) This paper will be conducted by the Practical Examiner according to Date sheet. Part-1 will be conducted in Morning session and Part II will be conducted in Evening session with one hour break. Each session will be of 4 hours. The paper setter will be set two separate questions for Part I and Part II respectively.
- (ii) The paper consists of three parts. Part-I is about imaginative composition and it carries 45 marks. In this part question will be set with choice to make bird or animals or human figures.
- (iii) The second part is about Portrait Study and Modelling of human Head from life or cast. This part will carry 45 marks.
- (iv) The third Part is about Sessional work. It carries 30 Marks.

### **INSTRUCTIONS FOR EVALUATION**

#### **PART-I**

Composition	17 Marks
Technique and Expression	17 Marks
Finishing and Clarity	11 Marks
Total	45 Marks

#### **PART-II**

Composition	17 Marks
Technique and Clarity	17 Marks
Finishing and Clarity	11 Marks
Total	45 Marks

#### **PART-III**

Practical Examiner will examine the articles.

30 Marks

## **SYLLABUS**

### **PART-I**

**45 : Marks**

#### **Composition:**

Imaginative simple composition on a given subject such as Birds or Animals and Human Figures.

### **PART-II**

**45 : Marks**

#### **Portrait Study:**

Modelling of Human head from life or cast.

### **PART-III**

**30 : Marks**

**Sessional Work** : At least twelve articles should be prepared during the session.

## **38. GEOMETRICAL PERSPECTIVE AND ARCHITECTURAL DRAWING SEMESTER-I**

**Time: 4 Hours**

**Theory : 55 Marks**

**CCE/Internal Assessment : 25 Marks**

**Total Marks: 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

- i) This paper will be conducted by the Centre Superintendent like other theory papers. The paper carries fifty five 55 marks.
- ii) The paper consists of two parts. In the first part the question of Plan. Solid Geometry and Perspective drawing will be set. This part will carry 25 marks for Part I.

**Size of Drawing Paper for Perspective Drawing:**  $\frac{1}{2}$  of imperial drawing paper (35cms x 55 cms)

- iii) In the second part of question on simple Architectural Drawing will be set. The candidates will be required to make front Elevation, side Elevation, Plain etc. This part carries 30 Marks.

**Size of Drawing Paper :** Half of imperial drawing paper i.e. (35 cms x 55 cms)

### **PART-I**

#### **A. Plan Geometry:**

The paper setter will set 2 questions. Each question will carry 4 marks. (2x4=8)

**Solid Geometry:**

The paper setter will set one question. It will carry 7 marks. (1x7=7)

**Perspective Drawing:**

The paper setter will set one question. It will carry 10 marks. (1x10=10)

**PART-I**

**B. Division of marks for perspective drawing :**

(a) Definition of Perspective Drawing.	2 Marks
(b) Preparation, Composition and Arrangement	2 Marks
(c) Correct Drawing and Measurement	2 Marks
(d) Line work and Writing	2 Marks
(e) Scale Drawing	2 Marks
Total	10 Marks

**PART-II**

**Division of marks of Architectural Drawing**

(a) Plan	9 Marks
(b) Front Elevation	9 Marks
(c) Side Elevation	9 Marks
(d) Writing and Scale Drawing	3 Marks
Total	30 Marks

**SYLLABUS**

**PART-I**

**25 : Marks**

**1. Plan Geometry**

**12 : Marks**

(i) Advance problems on inscribed and circumscribed figures such as Circles and Semicircles in and around the Triangle, Square, Rhombus, Regular Pentagon, Hexagon and Octagon.

(ii) Advance problems on division of Triangle. (2x4=8)

**2. Solid Geometry**

**7 : Marks**

(i) Advance problems on solids inclined to vertical and horizontal planes.

(ii) Advance problems on circular solids of inclined axis.

Size of paper Quarter imperial (35x25 cms) (1x7=7)

**3. Perspective Drawing**

**10 : Marks**

Definition and theoretical study of following:-

Perspective, Parallel Perspective, Angular Perspective, Picture plane eye level, Station point, Vanishing point, Centre of vision, Direction lines, Measuring points. (1x10 =10)

**PART-II**

**30 : Marks**

**Architectural Drawing**

Architectural designing relating to the plan, Elevation and Side view, Section view etc. of single room, two rooms (two room) set on 100 yards,

Size of paper: (Half imperial 35 cms x 55 cms).

**SEMESTER-II**

**Time: 4 Hours**

**Theory : 85 Marks**

**CCE/Internal Assessment: 35 Marks**

**Total : 120 Marks**

**STRUCTURE OF QUESTION PAPER**

- i) This paper will be conducted by the Centre Superintendent.
- ii) The paper consists of two parts. In the first part the question of Plan, Solid Geometry and Perspective drawing will be set. The part will carry 41 marks for Part I.

**Size of Drawing Paper:** Plan and Solid Geometry:  $\frac{1}{4}$  of imperial drawing paper (35 cms x 25 cms)

**Size of Drawing Paper for Perspective Drawing:**  $\frac{1}{2}$  of imperial drawing paper (35 cms x 55 cms)

- iii) In the second part of the question on simple Architectural Drawing will be set. The candidates will be required to make front Elevation, side Elevation, Plan etc. This part carries 44 Marks.

**Size of Drawing Paper :**  $\frac{1}{4}$  of imperial sheet paper i.e. (35 cms x 55 cms)

**PART-I**

**41 Marks**

**Plan Geometry.**

The paper setter will set 2 questions. First question will carry 5 marks and second question will carry 6 marks.

**Solid Geometry:**

The paper setter will set one question. It will carry 8 marks.

### **Perspective Drawing:**

The paper setter will set one question. It carries 22 marks.

#### **Division of marks for perspective drawing.**

(a)	Definition of Perspective Drawing.	5 Marks
(b)	Preparation, composition and arrangement	5 Marks
(c)	Correct Drawing and measurement	4 Marks
(d)	Line work and writing	4 Marks
(e)	Scale Drawing	4 Marks
	Total	22 Marks

### **PART-II**

**44 Marks**

#### **Division of Marks of Architectural Drawing**

(a)	Plan	13 Marks
(b)	Front Elevation	13 Marks
(c)	Side Elevation	9 Marks
(d)	Writing and Scale Drawing	9 Marks
	Total	44 Marks

## **SYLLABUS**

### **PART-I**

#### **1. Plan Geometry** **11 Marks**

- i) Advance Problems on Rectangle and Circles.
- ii) Advance problems of areas.
- iii) Construction and Geometrical problems of Ellipse, Construction by Arcs, Straight lines, Concentric circles, Parabola, In volute, Cycloid, Hypocycloid and Epicycloid.

#### **2. Solid Geometry** **8 Marks**

- i) Sections of solids cut through Horizontal and Vertical Plans.
- ii) Development of surfaces and construction of simple Isometric views of solids.

Size of paper; Quarter imperial (35x25 cms)

#### **3. Perspective Drawing** **22 Marks**

Advance practical problems of an optical projection in parallel or angular perspective of various types of objects such as Steps, Drawing Board, Chaunki, three dimensional English alphabetical letters such as E.F.H.I.T. only.

Size of paper : (Half imperial 35 cms x 55 cms).

## **PART-II**

### **Architectural Drawing**

**44 Marks**

Architectural Designing relating to the Plan Elevation and side view, section view etc. of three rooms set (Low cost housing) and two rooms sets on 150 yards, 200 yards piece of land. Preparation of single and double storey houses design on 150 yards.

**Size of Drawing Paper:** Half imperial sheet (35 cms x 55 cms)

## **39. COMMERCIAL ART SEMESTER-I**

**Time: 8 Hours**

**Practical : 80 Marks**

**Total : 80 Marks**

**(Four hours for Part I Morning Session)**

**(Four hours for Part II Evening Session)**

### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

- (i) This paper will be conducted by the Practical Examiner according to the Date sheet in two sessions. 4 hours to Part I and 4 hours for Part II respectively in morning and evening session with one hour break.
- (ii) The paper has three parts. Part-I carries 34 marks. In this part three questions will be set and the candidates will be required to attempt one.
- (iii) The Part-II is about Poster and children's Illustration. Two questions will be set. The candidates will be required to attempt one. This part carries 34 marks.
- (iv) The Part-III will be of sessional work. This part carries 12 marks.

## **INSTRUCTION FOR EVALUATION**

### **PART-1**

Layout/Designing and Insignia Design

#### **Question 1**

- |   |          |
|---|----------|
| (a) Lettering, Design and Arrangement   | 11 Marks |
| (b) Composition                         | 12 Marks |
| (c) Suitability of Design and Finishing | 11 Marks |

**Total**

**34 Marks**

**Question No. 2, 3 (Book Jacket)**

(a) Lettering, Design and Arrangement	11 Marks
(b) Composition	12 Marks
(c) Suitability of Design and Finishing	11 Marks
<b>Total</b>	<b>34 Marks</b>

**PART-II**

(a) Lettering, Design and Arrangement	11 Marks
(b) Composition	12 Marks
(c) Suitability of Design and Finishing	11 Marks
<b>Total</b>	<b>34 Marks</b>

**PART-III**

Practical Examiner will examine the Articles.	12 Marks
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**SYLLABUS**

**PART-I**

**Layout Designing** **34 Marks**

- (i) Preparation of Simple Layout Design for Letter Heads in Black and White.
- (ii) Preparation of design for Book Jacket in colours.

**Size of Paper:** Quarter imperial (35 cms x 25 cms)

**PART-II**

**Poster Designing** **34 Marks**

Preparation of simple poster for specified subject with suitable Illustration and lettering.

**Size of Paper:** Quarter imperial (35 cms x 25 cms)

**PART-III**

**Sessional work** **12 Marks**

At least Eight articles should be prepared during the session.

**SEMESTER-II**

**Time: 8 Hours**

**Practicals : 120 Marks**  
**Total: 120 Marks**

**(Four hours for Part I Morning Session)**

**(Four hours for Part II Evening Session)**

## STRUCTURE OF QUESTION PAPER

- (i) This paper will be conducted by the Practical Examiner according to the Date sheet in two sessions. 4 hours to Part I and 4 hours for Part II respectively in morning and evening session with one hour break.
- (ii) The paper has three parts. Part-I carries 45 marks. In this part three questions will be set and the candidates will be required to attempt one.
- (iii) The Part-II is about Primary Children Illustration. This part carries 45 marks.
- (iv) The III Part will be of Sessional work. This part carries 30 marks.

## INSTRUCTIONS FOR EVALUATION

### PART-I

Question No. 1st, 2nd and 3rd Letter Head, Magazine cover and Insignia Design,

- (a) Lettering, Design and Arrangement 17 Marks
- (b) Composition 17 Marks
- (c) Suitability of Design and Finishing 11 Marks
- Total 45 Marks**

### PART-II

Poster, Children's Book Illustration

- (a) Lettering, Design and Arrangement 17 Marks
- (b) Composition 17 Marks
- (c) Suitability of Design and Finishing 11 Marks
- Total 45 Marks**

### PART-III

Practical Examiner will examine the Articles. 30-Marks

## SYLLABUS

### PART-I

**Layout Designing 45 Marks**

- (i) Preparation of Design for Magazine Cover in colours.
- (ii) Preparation of simple Insignia Design/Monograms.

**Size of Paper:** Quarter imperial (35 cms x 25 cms)

### PART-II

**Poster Designing 45 Marks**

Preparation of Primary Children's Book Illustration in ink or colours on the given subjects.

**Size of Paper:** Quarter imperial (35 cms x 25 cms)



**PART-III**

**Sessional work:**

**30 Marks**

At least twelve articles should be prepared during the session.

## **40. DRAWING AND PAINTING SEMESTER-I**

**Time: 8 Hours**

**Practicals : 80 Marks**

**CCE/Internal Assessment : 10 Marks**

**Total : 80 Marks**

**(Four hours for Part I Morning Session)**

**(Four hours for Part II Evening Session)**

### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

1. This paper will be conducted by the Practical Examiner according to the Date Sheet in two sessions. 4 hours for Part I and 4 hours for Part II, Morning and Evening sessions with one hour break. The paper setter will set two separate question papers for Part I and Part II respectively.
2. The Paper has three parts. First part is of Free hand self expression Sketching and Composition from Life and Nature such as Birds, Animals and Human Figures of 34 Marks. A question of Flower Painting will also be set. The candidates will be required to attempt any one question of his choice.
3. The third Part will be of sessional work. This Part carries 12 marks.

### **FOR COLLAGE MAKING**

1. Size of Paper:  $\frac{1}{4}$  imperial white Drawing Paper (35cms x 25cms)  
Medium: Three coloured Papers Red, Blue and Yellow (32 cms x 20 cms)  
In the second part, question on Still Life or Graphics (Print making) will be set according to syllabus. The candidate will attempt one question of his choice

#### **Still life**

Size of Paper: Half Imperial (35 cms x 55 cms)

Medium: Pastel/Water/Oil Colours

OR

#### **Graphics (Print making)**

Material : Lino or Wood Block. The candidates will bring their own materials, Lino or Wood Block according to requirements. Printing Ink Solvents, Dyers and other material etc.

#### **Instructions for Evaluation**

### **PART-I**

#### **Sketching and Composition and Flower Painting**

- |      |             |         |
|------|-------------|---------|
| (i)  | Composition | 8 Marks |
| (ii) | Expression  | 8 Marks |

(iii)	Correct drawing	9 Marks
(iv)	Finishing and General Impression	9 Marks
	<b>Total</b>	<b>34 Marks</b>

## **PART-II**

### **Still Life**

(i)	Composition	7 Marks
(ii)	Ratio and Proportion	7 Marks
(iii)	Perspective	7 Marks
(iv)	Correct Drawing	7 Marks
(v)	Finishing	6 Marks
	<b>Total</b>	<b>34 Marks</b>

### **Graphics (Print Making)**

(i)	Composition	9 Marks
(ii)	Correct Drawing	9 Marks
(iii)	Creative Aspect and Expression	9 Marks
(iv)	Finishing	7 Marks
	<b>Total</b>	<b>34 Marks</b>

## **Part-III**

Practical Examiner will examine the Articles.	<b>12 Marks</b>
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## **SYLLABUS**

<b>Time: 4 Hours</b>	<b>34 Marks</b>
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### **PART I**

#### **Free Hand self Expression**

Sketching and Composition: Sketching from Life and Nature such as Birds, Animals, Human figures etc, depicting some actions or expression through Composition.

OR

#### **Flower Painting:**

Painting or different types of flowers arranged in a vase.

Size of Paper: Quarter imperial (35cms x 25cms)

Medium: Pastel/Water Colours

## **PART-II**

**Time: 4 Hours**

**34 Marks**

### **Still Life**

Study of Still Life object not more than four in a group with drapery in the back-ground.

Size of Paper: Half imperial (35cms x 55cms)

Medium: Pastel/Water/Oil Colours.

OR

### **Graphics (Print Making)**

1. Introduction to the history of print making.
2. Printing methods and materials.
3. Characteristics of Printing Inks, Solvents and Dyers.

Relief Painting from Lino or Wood Block based on Naturel, Birds, Animals and Human Figure motifs in single colour.

Size of Paper : 1 8 imperial (12 cms x 18 cms)

## **PART-III**

**12 Marks**

**Session work:** At least 8 articles should be prepared during this session.

## **SEMESTER-II**

**Time: 8 Hours**

**Practicals : 120 Marks**

**Total Marks: 120 Marks**

**(Four hours for Part I Morning Session)**

**(Four hours for Part II Evening Session)**

### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

This paper will be conducted by the Practical Examiner according to the Date Sheet in two sessions. 4 hours for Part I and 4 hours for Part II, Morning and Evening sessions respectively with one hour break.

The Paper has three parts. First part of Land Scape Painting, Collage making and Textile Design. The Second Part will be of Still Life or Graphics. The candidates will be required to attempt one question from Part-I of 45 Marks. Two questions will be set from Part-II of 45 Marks and candidate will be required to attempt only one.

The third Part will be of sessional work. This Part carries 30-marks.

**For Landscaping Painting**

**Size of Paper:** ¼ imperial Paper (35cms x 25cms)

**Medium:** Pastel/Water/Oil Colours

### **Collage Making**

Size of Paper: ¼ imperial white Drawing Paper (35cms x 25cms)

Medium: Three coloured papers and old Newspaper, Kite papers and Magazine papers

### **Design**

**Size of Paper:** ¼ imperial (35 cms x 25 cms)

**Medium:** Poster colour only

### **Still life**

**Size of Paper:** Half Imperial (35 cms x 55 cms)

**Medium:** Pastel/Water/Oil Colours

### **Graphics**

**Size of paper:** 1/8 Imperial (12 cms x 18 cms)

Relief Printing from Lino or Wood Block based on Nature, Birds, Animals and Human Figures motifs in single colour.

Material: The candidates will bring their own materials, Lino or Wood Block according to requirements. Printing Ink, Solvents, Dyers and other material etc.

## **INSTRUCTIONS FOR EVALUATION**

### **PART-I**

#### **Land Scape Painting, Collage making and Sketching**

(i)	Composition	12 Marks
(ii)	Expression	11 Marks
(iii)	Correct drawing	11 Marks
(iv)	Finishing and General Impression	11 Marks
	<b>Total</b>	<b>45 Marks</b>

#### **Design**

(i)	Preparation of Motif of Design	12 Marks
(ii)	Arrangement of Design on paper	12 Marks
(iii)	Tracing	8 Marks
(iv)	Finishing and colour scheme	13 Marks
	<b>Total</b>	<b>45 Marks</b>

## PART-II

### Still Life

(i) Composition	9 Marks
(ii) Ratio and Proportion	7 Marks
(iii) Perspective	7 Marks
(iv) Correct Drawing	11 Marks
(v) Light and Shade	11 Marks
<b>Total</b>	<b>45 Marks</b>

### Graphics

(i) Composition	12 Marks
(ii) Correct Drawing	11 Marks
(iii) Creative aspects and Expression	11 Marks
(iv) Finishing	11 Marks
<b>Total</b>	<b>45 Marks</b>

## Part-III

Practical Examiner will examine the Articles. **30 Marks**

## SYLLABUS

### PART I

**Time: 4 Hours**

#### Landscape Painting

Making Landscape from Imagination, Memory or On the Spot. The Landscape creative trees, huts, houses, lakes, rivers and mountains etc.

**Size of Paper :** Quarter imperial (35 cms x25 cms)

**Medium:** Pastel/Water colour. **45 Marks**

#### Collage Making

Collage making through creative composition based on Natural, Geometrical forms in Coloured paper/Kite paper/Crape paper/Old News paper and Magazine clippings.

**Size of Paper :** ¼ imperial (35 cms x25 cms)

**Medium:** Coloured papers, News papers, Magazine cuttings. **45 Marks**

#### Design

To prepare Decorative, Foliated Geometric or Animated design suitable for specific purpose i.e. textile etc. Such as all over patterns, sari borders, curtains etc.

**Size of Paper :** ¼ imperial (35 cms x 25 cms)

**Medium:** Poster colours only. **45 Marks**

## **PART-II**

**Time : 4 Hours**

Study of Still Life object not more than four in a group with drapery in the back Ground.

**Size of Paper :** ½ imperial (35 cms x55 cms)

**Medium:** Pastel/Water/Oil Colours.

**45 Marks**

**OR**

### **Graphics (Print Making)**

- (i) Introduction to the history of Print Making.
- (ii) Printing methods and materials.
- (iii) Characteristics of Printing Inks, Solvents and Dyers.

Relief Painting from Lino or Wood Block based on nature Birds, Animals and Human Figure motifs in simple colour.

**Size of Paper :** 1/8 imperial (12 cms x 18 cms)

45 Marks

## **PART-III**

Sessional work : At least twelve (12) articles should be prepared during this session: 30 Marks

# **41. HISTORY AND APPRECIATION OF ART SEMESTER-I**

**Time: 2½ Hours**

**Theory : 55 Marks**

**CCE/Internal Assessment:-25 Marks**

**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER (THEORY)**

10 questions on History and Appreciation of Art will be set in this paper, out of which candidate will be required to attempt five questions. Each question will be of 11 marks. The question paper will have two parts. History of Art Part-I and Appreciation of Art Part-II. The candidate will be required to attempt three questions from Part I and two from Part II.

### **SYLLABUS**

#### **PART-I**

#### **History of Indian Art, including Painting and Sculpture:**

1. Western Indian Miniature paintings.
2. Pala School
3. Rajasthani School of Painting.

#### **PART-II**

#### **Appreciation of Art:**

1. Art and Beauty.
2. Six limbs of Indian Painting.
3. Qualities of a good artist.

## **SEMESTER-II**

**Time: 3 Hours**

**Theory : 85 Marks**

**CCE/Internal Assessment : 35 Marks**

**Total : 120 Marks**

### **STRUCTURE OF QUESTION PAPER (THEORY)**

10 questions on History and Appreciation of Art will be set in this paper, out of which candidate will be required to attempt five questions. Each question will be of 17 Marks. The question paper will have two parts. History of Art Part-I and Appreciation of Art Part-II. The candidate will be required to attempt three questions from Part I and two from Part II.

### **SYLLABUS**

#### **PART-I**

#### **History of Indian Art, including painting and sculpture:**

1. Mughal School of Painting.
2. Pahari School of Painting
3. Amaravati, Palva, Chola (Bronze), Chalukyan, Ellora, Elephanta .

#### **PART-II**

#### **Appreciation of Art:**

1. Materials and Techniques in Art
2. Art and Society
3. Appreciation of work of Art.
4. Appreciation of Master pieces of Indian Art : Sarnath Budha (Guptagn)  
Animal Design of Ashoka Pillar, Natraj Bronze (Chola) Sculpture, Bodhi Satva Padam Rani (Ajanta), Mother and Child (Ajanta) Sohni Mahiwal by Sobha Singh. After Bath by Thakur Singh.



## 42. ਸਿਹਤ ਅਤੇ ਸਰੀਰਕ ਸਿੱਖਿਆ

### ਸਮੇਸਟਰ -I

ਥਿਊਰੀ ਲਈ ਸਮਾਂ : 2½ ਘੰਟੇ

ਥਿਊਰੀ ਭਾਗ - 30 ਅੰਕ

ਪ੍ਰਯੋਗੀ ਭਾਗ - 40 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ - 10 ਅੰਕ

ਕੁੱਲ - 80 ਅੰਕ

### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁਲ 15 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 1 ਤੋਂ 8 ਤੱਕ ਇੱਕ-ਇੱਕ ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ ਅਤੇ ਇਹ ਓਬਜੈਕਟਿਵ ਟਾਈਪ ਵੀ ਹੋ ਸਕਦੇ ਹਨ ਅਤੇ ਇਹਨਾਂ ਦਾ ਉੱਤਰ 10 ਸ਼ਬਦਾਂ ਤੱਕ ਦਾ ਹੋ ਸਕਦਾ ਹੈ।
3. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 9 ਤੋਂ 11 ਤੱਕ ਦੋ-ਦੋ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਭਗ 30 ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ।
4. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 12 ਤੋਂ 13 ਤੱਕ ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਜਿਨ੍ਹਾਂ ਦਾ ਉੱਤਰ ਲਗਭਗ 30 ਤੋਂ 50 ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ।
5. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 14 ਅਤੇ 15 ਪੰਜ- ਪੰਜ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ, ਇਹਨਾਂ ਵਿਚੋਂ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।

### ਪਾਠਕ੍ਰਮ

### ਲਿਖਤੀ ਭਾਗ

#### ਪਾਠ ਪਹਿਲਾ - ਸਰੀਰਕ ਯੋਗਤਾ

- ੳ) ਸਰੀਰਕ ਯੋਗਤਾ ਦਾ ਅਰਥ ਅਤੇ ਮਹੱਤਤਾ
- ਅ) ਸਰੀਰਕ ਯੋਗਤਾ ਦੇ ਘਟਕ (ਅੰਗ)
- ੲ) ਸਰੀਰਕ ਯੋਗਤਾ ਨੂੰ ਪ੍ਰਭਾਵਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕ
- ੳ) ਸਰੀਰਕ ਯੋਗਤਾ ਦੇ ਵਿਕਾਸ ਦੇ ਸਿਧਾਂਤ

#### ਪਾਠ ਦੂਜਾ- ਸਿਖਲਾਈ ਦੀਆਂ ਵਿਧੀਆਂ ਅਤੇ ਹੋਰ ਸਿਧਾਂਤ

- ੳ) ਸਰੀਰਕ ਨੂੰ ਗਰਮਾਉਣਾ, ਠੰਡਾ ਕਰਨਾ ਅਤੇ ਇਸ ਦੇ ਸਿਧਾਂਤ
- ਅ) ਅਨੁਕੂਲਨ

- ੲ) ਆਈਸੋਸਮੀਟਰਿਕ, ਆਈਸੋਟੋਨਿਕ ਅਤੇ
- ਸ) ਆਈਸੋਕਾਈਨੈਟਿਕ ਕਸਰਤਾਂ
- ਹ) ਅੰਤਰਾਲ ਸਿਖਲਾਈ ਵਿਧੀ
- ਕ) ਫਾਰਟਲੇਕ ਸਿਖਲਾਈ ਦੀ ਵਿਧੀ
- ਖ) ਵਰਤੋਂ ਜਾਂ ਅਵਰਤੋਂ ਅਤੇ ਵਾਧੂ ਭਾਰਤ ਦਾ ਸਿਧਾਂਤ

#### ਪਾਠ ਤੀਜਾ - ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਸਮਾਜਿਕ ਪੱਖ

- ੳ) ਵਿਭਿੰਨ ਸਮਾਜਿਕ ਸੰਗਠਨਾਂ ਦਾ ਵਿਅਕਤੀਗਤ ਅਤੇ ਸਮੂਹਿਕ ਵਿਵਹਾਰ ਉੱਪਰ ਪ੍ਰਭਾਵ
- ਅ) ਖੇਡਾਂ ਮਨੁੱਖ ਦਾ ਸਭਿਆਚਾਰਕ ਵਿਰਸਾ
- ੲ) ਸਰੀਰਕ ਸਿੱਖਿਆ ਵਿੱਚ ਅਗਵਾਈ ਦੀ ਸਿੱਖਿਆ ਅਤੇ ਇਸ ਦੀ ਮਹੱਤਤਾ

### ਪਾਠਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ)

ਸਮਾਂ 4 ਘੰਟੇ

ਪ੍ਰਯੋਗੀ : 40 ਅੰਕ

- ੳ) ਟਰੈਕ ਅਤੇ ਫੀਲਡ ਦੀ ਈਵੈਂਟਸ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ) ਹਰੇਕ ਈਵੈਂਟ ਦੇ 10 ਅੰਕ ਹੋਣਗੇ।  
ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਈਵੈਂਟਸ ਚੁਣੀਆਂ ਜਾ ਸਕਦੀਆਂ ਹਨ।
    1. ਦੌੜਾਂ - 100 ਮੀਟਰ , 200 ਮੀਟਰ ਅਤੇ 400 ਮੀਟਰ ।
    2. 4×100 ਮੀਟਰ ਅਤੇ 4×400 ਮੀਟਰ ਰਿਲੇਅ
    3. ਬਰਾਡ ਜੰਪ, ਪੌਲਵਾਲਟ, ਸ਼ਾਟ ਪੁੱਟ, ਜੈਵਲਿਨ ਥਰੋ
  - ਅ) ਹੇਠ ਲਿਖੀਆਂ ਵਿੱਚੋਂ ਕੋਈ ਇਕ ਖੇਡ ਦੀ ਚੋਣ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਹਰੇਕ ਖੇਡ ਦੇ 5 ਅੰਕ ਹੋਣਗੇ।  
ਖੇਡਾਂ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ)  
ਹਾਕੀ, ਹੈਂਡ ਬਾਲ, ਕਬੱਡੀ, ਬਾਕਸਿੰਗ, ਟੇਬਲ ਟੈਨਿਸ, ਤੈਰਾਕੀ ਅਤੇ ਡਾਈਵਿੰਗ, ਜਿਮਨਾਸਟਿਕ।
  - ਸ) ਪ੍ਰੈਕਟੀਕਲ ਕਾਪੀ, ਚਾਰਟ ਜਾਂ ਮਾਡਲ - 5 ਅੰਕ (ਇਸੇ ਕਾਪੀ ਤੇ ਦੂਜੇ ਸਮੇਸਟਰ ਲਈ ਵੀ ਕੰਮ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।)
  - ਹ) ਵਾਇਵਾ - 5 ਅੰਕ
- ਨੋਟ : ਪ੍ਰੈਕਟੀਕਲ ਦੇਣ ਸਮੇਂ ਪ੍ਰੀਖਿਆਰਥੀ ਸਪੋਰਟਸ ਕਿੱਟ ਵਿੱਚ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ।

### ਸਮੇਸਟਰ -II

ਬਿਊਰੀ ਲਈ ਸਮਾਂ : 3 ਘੰਟੇ

ਬਿਊਰੀ ਭਾਗ - 40 ਅੰਕ

### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁਲ 19 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 1 ਤੋਂ 8 ਤੱਕ ਇੱਕ-ਇੱਕ ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
3. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 9 ਤੋਂ 13 ਤੱਕ ਦੋ-ਦੋ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਭਗ 20 ਤੋਂ 30 ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ।
4. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 14 ਤੋਂ 17 ਤੱਕ ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਜਿਨ੍ਹਾਂ ਦਾ ਉੱਤਰ ਲਗਭਗ 30 ਤੋਂ 40 ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ।
4. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 18 ਅਤੇ 19 ਪੰਜ- ਪੰਜ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ, ਇਹਨਾਂ ਵਿਚੋਂ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।

### ਪਾਠ-ਕ੍ਰਮ (ਲਿਖਤੀ)

#### ਪਾਠ ਪਹਿਲਾ ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਸਮਾਜਿਕ ਪੱਖ

- ੳ) ਖੇਡ-ਕੁੱਦ ਰਾਹੀਂ ਵਿਅਕਤੀ ਅਤੇ ਸਮੂਹਾਂ ਦਾ ਸਮਾਜੀਕਰਨ
- ਅ) ਸਰੀਰਕ ਸਿੱਖਿਆ ਰਾਹੀਂ ਰਾਸ਼ਟਰੀ ਏਕਤਾ

#### ਪਾਠ ਦੂਜਾ ਅਸਮਰੱਥਾ ਦੀ ਰੋਕਥਾਮ ਅਤੇ ਮੁੜ ਵਸੇਬਾ

- ੳ) ਪਰੀਭਾਸ਼ਾ ਅਤੇ ਅਸਮਰੱਥਾ ਦੇ ਵਿਭਿੰਨ ਕਾਰਕ
- ਅ) ਸਾਧਾਰਣ ਕਿੱਤਿਆਂ ਵਿੱਚ ਪੈਦਾ ਹੋਣ ਵਾਲੀ ਅਸਮਰੱਥਾ ਅਤੇ ਕਿੱਤੇ ਸਬੰਧੀ
- ੲ) ਅਸਮਰੱਥਾ ਰੋਕਣ ਦੇ ਆਮ ਸਿਧਾਂਤ
- ਸ) ਮੁੜ-ਵਸੇਬਾ (ਪੁਨਰਵਾਸ) ਦੀ ਪਰੀਭਾਸ਼ਾ, ਖੇਤਰ ਅਤੇ ਪੁਨਰਵਾਸ ਲਈ ਉਪਲੱਬਧ ਸੇਵਾਵਾਂ

#### ਪਾਠ ਤੀਜਾ ਆਮ ਖੇਡ ਸੱਟਾਂ ਤੋਂ ਬਚਾਓ ਅਤੇ ਮੁੱਢਲੀ ਸਹਾਇਤਾ

- ੳ) ਮੁੱਢਲੀ ਸਹਾਇਤਾ ਦੇ ਅਰਥ ਅਤੇ ਮੁੱਢਲੇ ਸਹਾਇਕ ਦੇ ਗੁਣ
- ਅ) ਮੁੱਢਲੀ ਸਹਾਇਤਾ ਅਤੇ ਫੇਫੜਿਆਂ ਨੂੰ ਪੁਨਰ ਚਾਲੂ ਕਰਨਾ ( ਸੀ ਪੀ ਆਰ) ਅਤੇ ਸਿਹਤ ਵਿਗਿਆਨ ਸਮੇਤ ਫੇਫੜਿਆਂ ਤੇ ਦਿਲ ਨੂੰ ਪੁਨਰ ਚਾਲੂ ਕਰਨਾ
- ੲ) ਹੱਡੀ ਟੁੱਟਣ ਅਤੇ ਖਿਸਕਣ ਲਈ ਮੁੱਢਲੀ ਸਬਹਾਗਿਏਤਾ
- ਸ) ਮੋਚ ਅਤੇ ਖਿਚਾਅ ਲਈ ਮੁੱਢਲੀ ਸਹਾਇਤਾ

#### ਪਾਠ ਚੌਥਾ ਪਰਿਵਾਰਿਕ ਜੀਵਨ ਸਬੰਧੀ ਸਿੱਖਿਆ

- ੳ. ਪਰਿਵਾਰ ਦਾ ਅਰਥ। ਕੰਮ ਅਤੇ ਸਮਾਜਿਕ ਸੰਸਥਾਂਵਾਂ ਦੀ ਉਪਯੋਗਤਾ
- ਅ. ਕਿਸ਼ੋਰ ਅਵਸਥਾ ਦੀਦਆਂ ਸਮੱਸਿਆਵਾਂ ਅਤੇ ਉਹਨਾਂ ਦਾ ਪ੍ਰਬੰਧ
- ੲ. ਬੱਚਿਆਂ ਦੇ ਕਲਿਆਣ ਵਿੱਚ ਮਾਤਾ- ਪਿਤਾ ਦਾ ਯੋਗਦਾਨ
- ਸ. ਵਿਆਹ ਅਤੇ ਪਰਿਵਾਰਿਕ ਜੀਵਨ ਦੀ ਤਿਆਰੀ

### ਪਾਠਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ)

ਸਮਾਂ 4 ਘੰਟੇ

ਕੁੱਲ : 60 ਅੰਕ

ੳ) ਟਰੈਕ ਅਤੇ ਫੀਲਡ ਦੀ ਈਵੈਂਟਸ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ) ਹਰੇਕ ਈਵੈਂਟ ਦੇ 10 ਅੰਕ ਹੋਣਗੇ।

ਹੇਠ ਲਿਖਿਆਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਈਵੈਂਟਸ ਚੁਣੀਆਂ ਜਾ ਸਕਦੀਆਂ ਹਨ।

1. ਦੋੜਾਂ -400 ਮੀਟਰ ਅਤੇ 800 ਮੀਟਰ, 3000 ਮੀਟਰ, ਲੜਕੀਆਂ ਲਈ 110 ਮੀਟਰ ਹਰਡਲ (ਹਰਡਲ ਦੀ ਉਚਾਈ 96.4 ਸੈ.ਮੀ. ਅਤੇ 10 ਉਚਾਈਆਂ), ਲੜਕੀਆਂ ਲਈ 100 ਮੀਟਰ ਹਰਡਲ (ਹਰਡਲ ਦੀ ਉਚਾਈ 76.2 ਸੈ.ਮੀ.) ਅਤੇ 8 ਉਚਾਈਆਂ
2. ਜੈਵਲਿਨ ਥਰੋ, ਲੌਂਗ ਜੰਪ, ਹਾਈ ਜੰਪ, ਟਰਿੱਪਲ ਜੰਪ।

ਅ) ਹੇਠ ਲਿਖਿਆਂ ਵਿਚੋਂ ਕਈ ਇਕ ਖੇਡ ਦੀ ਚੋਣ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਹਰੇਕ ਖੇਡ ਦੇ 10 ਅੰਕ ਹੋਣਗੇ।  
ਖੇਡਾਂ/ਚੋਣਵੀਆਂ ਕਿਰਿਆਵਾਂ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ)

ਫੁੱਟਬਾਲ, ਬੈਡਮਿੰਟਨ, ਬਾਸਕਟਬਾਲ, ਕ੍ਰਿਕਟ, ਖੋ-ਖੋ, ਕੁਸ਼ਤੀ, ਜੂਡੋ, ਵਾਲੀਬਾਲ, ਗੱਤਕਾ, ਲਾਨ ਟੈਨਿਸ,ਯੋਗਾ ਨਾਲ ਸਬੰਧਤ ਸਰੀਰਕ ਕ੍ਰਿਆਵਾਂ, ਰਿਦਮਕ ਫੋਕ ਡਾਂਸ

ੲ) ਖੇਡਾਂ ਵਿੱਚ ਪ੍ਰਾਪਤੀ (ਵੱਧ ਤੋਂ ਵੱਧ 15 ਅੰਕ) ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਅੰਕ ਦਿੱਤੇ ਜਾਣਗੇ।

(ਪੂਰੇ ਸਾਲ ਦੀਆਂ ਖੇਡ ਪ੍ਰਾਪਤੀਆਂ ਦੇ ਨੰਬਰ ਦੂਜੇ ਸਮੈਸਟਰ ਵਿੱਚ ਹੀ ਜੋੜੇ ਜਾਣਗੇ।

ਸਕੂਲ ਪ੍ਰਤੀਨਿੱਧਤਾ	5 ਅੰਕ
ਜ਼ੋਨ ਪ੍ਰਤੀਨਿੱਧਤਾ	7 ਅੰਕ
ਜ਼ਿਲ੍ਹਾ /ਕਾਲਜ ਪ੍ਰਤੀਨਿਧਤਾ	9 ਅੰਕ
ਰਾਜ/ ਯੂਨੀਵਰਸਿਟੀ ਪ੍ਰਤੀਨਿਧਤਾ	12 ਅੰਕ
ਕੌਮੀ ਪ੍ਰਤੀਨਿਧਤਾ	15 ਅੰਕ

ਸ) ਪ੍ਰੈਕਟੀਕਲ ਕਾਪੀ, ਚਾਰਟ ਜਾਂ ਮਾਡਲ - 5 ਅੰਕ

ਕ) ਵਾਇਵਾ - 10 ਅੰਕ

ਨੋਟ:- ਪ੍ਰੈਕਟੀਕਲ ਦੇਣ ਸਮੇਂ ਪ੍ਰੀਖਿਆਰਥੀ ਸਪੋਰਟਸ ਕਿੱਟ ਵਿੱਚ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ।

**43. INSURANCE**  
**(HUMANITIES GROUP)**  
**SEMESTER - I**

TIME- 2½ Hours

Theory- 55 Marks  
CCE/IA- 25 Marks  
Total : 80 Marks

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question No.1 will consist of 9 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-I. Answer of each question should be given in 1-15 words.
6. Question No.2 to 9 will carry 4 marks each. The answer of each question should be given in 75-80 words.
7. Question No.10 and 11 each with internal choice will carry 7 marks each. The answer of each question should be given in 250-300 words.

**SYLLABUS**

**1. Introduction to General Insurance:**

Introduction: Origin and Growth of General Insurance: Functions of insurance: Contracts of Insurance and Basic Principles of Insurable Interests.

**2. Fire Insurance:**

1. Introduction: Origin and Object of Fire Insurance and scope of cover of special perils under Fire Insurance.
2. Standard Fire Policy and Conditions.
3. Different Types of Fire Policies: Declaration Policy, Floating Policy for building in course of construction: Transit Risk Policy and Loss or Profit Policy.

**3. Marine Insurance:**

1. Introduction: Meaning and Scope of Marine Insurance. Risk covered in Marine Insurance. Role of Lloyds Association.

2. Types of Marine Policies: Time, Voyage, Mixed, Builders Risk, Floating Policy, Inland Transit, Annual Policy, Postal and Air Policy. Duty and Profit Policy and Special Declaration Policy.
3. Classification of losses: Recovery of Marine losses and claims procedure General Average Hull insurance (G.A.H.I.)

## **SEMESTER - II**

**TIME- 3 Hours**

**Theory- 85 Marks  
IA/CCE- 35 Marks  
Total 120 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. The Question paper will cover whole of the syllabus prescribed for Semester-II.
2. All Questions will be compulsory.
3. 15 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question No.1 will consist of 17 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-II. Answer of each question should be given in 1-15 words.
6. Question No.2 to 11 will carry 4 marks each. The answer of each question should be given in 75-80 words.
7. Question No.12 to 15 will carry 7 marks each with internal choice. The answer of each question should be given in 250-300 words.

## **SYLLABUS**

### **Miscellaneous Insurance:**

#### **1. Motor Insurance:**

- I. Introduction: Provisions of Motor Vehicles Acts of 1939 and 1988. Issue of transfer and Cancellation Certificate of insurance.
- II. Classification of Motor Vehicles: Private Car, Motor Cycles, Commercial Vehicles and miscellaneous types of vehicles..
- III. Motor Insurance Policy and Covers: Comprehensive Policy: Third Party Act Policies: Extra Benefits Cover and Additional Perils and Benefits Cover Policies.
- IV. Motor Insurance Claims:

Entitlement of Claim: Conditions of Indemnity: Settlement of Claim.  
No Claim Discount. Motor Accident Claims Tribunal (M.A.C.T.)

**2. Insurance of Persons:**

Personal Accident (P.A.) Janta Personal Accident (J.P.A.); Gramin Personal Accident Policy (G.P.A.); Accident Policy for School Going Children group; Personal Accident Air Travel (P.A.A.T.) Insurance Policies and Health Insurance Scheme (H.I.S.)

**3. Insurance of Property:**

'Burglary Policy, Combined Fire and Theft Policy: All Risks Policy, Travellers Baggage Policy, Jewellery and valuable policy and cash in Transit policy.

**4. Insurance of Liability and interest ;**

Public Liability : Professional Indemnity, Different Types of Fidelity, Guarantee insurance : Commercial, Individual, Collective and Excess Floating Policies.

**5. Package Policy :**

Domestic Multi-Risk : Traders Combined, Bankers Blanket, Jewellers Block, Marine-cum-Erection, Storage-cum-Erection, Insurance Policy.

**6. Loss Prevention :**

Introduction : Method of Loss Prevention, Loss Prevention Association India (L.P.A.I.)

## **44. RURAL DEVELOPMENT AND ENVIRONMENT**

### **SEMESTER-1**

**Time: 2.30 Hours**

**Theory paper : 55 Marks**

**CCE/Internal Assessment 25 Marks**

**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be 18 questions in the question paper.
2. All questions are compulsory.
3. There will be three-sections i.e. A, B and C in the question paper .

### **Section A**

This section will comprise of 10 Questions.

1. 5 will be of 1 mark each. Answer to each question will be in few words or one line. 1×5=5

2. 5 are very short answer type Questions carrying 2 marks each.  
Each question should be answer in 5-7 lines.  $2 \times 5 = 10$

### **Section B**

This section will comprise of part-1 of the syllabus containing 1-2 units. In this section Four questions of five marks each will be set, whose answer should be given in 15-20 lines.  $5 \times 4 = 20$

### **Section C**

This section will comprise of part -II of the syllabus containing unit-III. In this section also, Four Questions of five marks each will be set, whose answer should be given in 15-20 lines.  $5 \times 4 = 20$

## **SYLLABUS**

### **PART-1**

#### **Unit-1 Environment:**

- (a) Nature and scope of Environment Education : Objective of environment studies, the need of environment studies at local, regional and national levels.
- (b) The logic behind the Holistic view of environment .Man as a culturally contributing activist either positively or passively.
- (c) Ecology: Ecological cycle and ecological principles, Relationship between Ecology and Economics, Political and Social implications of Environmental issues.

#### **Unit-2 Geographical Features of the State (Punjab)**

- (a) Physical situation: Annual rainfall, total cropped area: land under trees and forests.
- (b) Agro- climate regions: effects of weather and climate on growth, maturity and harvesting of crops,
- (c) Physical properties of the Soil, Structure and its types.

### **PART -II**

## **AGRICULTURE**

**(With special reference to Punjab)**

#### **Unit-3 Agro-industries**

##### **(a) Dairy Farming.**

- (i) Importance of dairy as an industry for the rural development.
- (ii) Importance Breeds of Cattle i.e. Cows, Buffaloes, Sheep, and Goats reared in the states and improvement in their breeds.
- (iii) Improvement of their yield through proper nutrients in feed and feeding stuff.
- (iv) Major animal diseases and their control.



(v) Marketing of milk products in the rural areas.

**(b) Poultry Farming**

- (i) Importance of poultry farming as an industry for rural development
- (ii) Poultry houses and equipment.
- (iii) Proper feeding of poultry birds and improvement in their breeds.
- (iv) Major poultry diseases and their remedies.
- (v) Packing and marketing of poultry products.

**(c) Piggery and Fisheries**

- (i) Scope of piggery and fisheries in the state.

**SEMESTER -II**

**Time: 3 Hours**

**Theory paper : 85 Marks**

**CCE/Internal Assessment : 35 Marks**

**Total : 120 Marks**

**STRUCTURE OF QUESTION PAPER**

- 1. There will be 24 questions in the question paper.
- 2. All question are compulsory.
- 3. There will.be three sections i.e. A, B and C in the question paper.

**Section A**

This section will comprise of five questions of 1 mark each. Answer should be in one word or one line. 5 short answer type questions carrying two marks each will be set. These answers should be of 5-7 lines. These questions will be asked on the terminology and definitions of the basic concepts.  $5+(5\times 2) = 15$

**Section B**

This section will comprise of part -1 of the syllabus containing 1-3 unit. In this section six questions of five marks each will be set, whose answer should be given in 15-20 lines.  $5\times 6=30$

**Section C**

This section will comprise of part-II of syllabus containing 4<sup>th</sup> unit. In this section, eight questions of 5 marks will be set in all, whose answer should be given in 15-20 lines.  $5\times 8=40$

**SYLLABUS**

**PART-I**

**Unit-1 Conservation of Natural resources of the State (Punjab)**

- (a) Land and mineral resources
- (b) Major water and power resources

- (c) Forest wealth of Punjab. Paucity of natural forests in the State. Forest policy of the State Govt.

**Unit-2      Pollution**

- (a) Environment pollution through industrial products and wastes, insecticides and pesticides.
- (b) Pollution of air and water in rural areas ; various ways and means to check it.

**Unit-3      Population distribution**

- (a) Size and rate of growth of population : causes and effects of rapidly growing population, family welfare and other measures to check population growth.
- (b) Population Education : highlighting the problems of large families and propagating the idea of small families

**PART-II**

**Unit-4      Horticulture (with special reference to Punjab)**

- (a) Importance of special forestry in the rural development. Economic and environment benefits of social forestry.
- (b) Growing of some important trees like Acacia (Kikar), Dalbergia (Tali), Pop lar and Eucalypt'us in the rural areas and role of the state Govt. for encouraging social forestry in the villages.
- (c) Fruit plants  
Growing of some major fruit plants in the different parts of the State. Methods of their planting, initial care, irrigation methods and control of their diseases. Fruits marketing, and preservation.
- (d) Vegetable plants  
(i) Cultivation of various vegetables grown in different parts of the State.  
(ii) Major vegetable diseases and their control.  
(iii) Marketing of vegetables and their preservation

**45. MEDIA STUDIES  
SEMESTER-I**

**Time : 2.30 Hrs.**

**Theory Paper : 55 Marks  
CCE/IA : 25 Marks  
Total : 80 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be 12 questions in all.

2. All the questions shall be compulsory which shall be set keeping in mind that the subject matter is for beginners.
3. Part-I of the paper shall consist of 5 questions of 1 marks each all objective type, to be set from whole of syllabus.  $5 \times 1 = 5$
4. Part-II of the paper shall consist of 4 questions of 5 marks each, of a paragraph or two in size, and length, selecting two each from each group.  $4 \times 5 = 20$
5. Third part of the paper shall contain 3 questions of 10 marks each, atleast one chosen from each group. Its answer shall run into 300 words minimum.  $3 \times 10 = 30$

## **SYLLABUS THEORY**

### **HISTORY AND DEVELOPMENT OF MEDIA**

#### **Group - A**

- I. Brief history and development of media in India and Punjab.
- II. History of Punjabi Journalism

#### **Group-B**

- III. Script writing for radio and television programmes.
- IV. Radio Programmes - Characteristics, types and impact.
- V. T.V Programmes - Characteristics, types and impact.

### **SEMESTER-II**

**Time : 3 Hrs.**

**Time : 3 Hrs.**

**Theory Paper : 65 Marks**

**Internal Assessment/ CCE : 30 Marks**

**Oral Paper (Viva) : 25 Marks**

**Total : 120 Marks**

### **STRUCTURE OF QUESTION PAPER (THEORY)**

There shall be 14 questions in all, 6 being of 5 marks each in Part-II, totaling 30 marks. Other instructions are the same as in Semester-I.

### **VIVA VOCE (PRACTICAL)**

1. Printed/Broadcasted/Telecasted materials in accordance with syllabus shall be assessed out of maximum 10 marks.
2. Display of telebroad and ask the candidate any questions out of topics mentioned in syllabus and award marks out of 10 maximum.

## **SYLLABUS (THEORY) FILMS AND CYBER JOURNALISM**

### **Group - A**

- I. Films : Brief history, characteristics, types and impact.
- II. Punjabi Cinema.

### **Group-B**

- III. Cyber journalism : social networking ; orkut, facebook, twitter, Blogging, Websites.
- IV. Communication through mobile phones.
- V. Introduction to media ethics.
- V. Basic terminology and use reference materials.

### **VIVA VOCE (PRACTICAL)**

1. Printed material or aired programmes: Each student shall have to send their articles, features and letters to various newspapers or magazine and (Or) they may take part in any of the radio programmes. They shall have to maintain record of their practical work.
2. Teleboard Display and news reading
3. Viva : The examiner may ask the candidate any question on visit to any radio or T.V station and current affairs related to running academic session period.

## **46. PHYSICS**

### **SEMESTER-1**

**Time: 2:30 hrs.**

**Theory : 55 Marks**

**Internal Assessment/CCE : 25 Marks**

		<b>Marks</b>
<b>UNIT-I</b>	<b>(Electrostatics)</b>	<b>14</b>
<b>UNIT-II</b>	<b>(Current Electricity)</b>	<b>12</b>
<b>UNIT-III</b>	<b>(Magnetic Effects of current &amp; Magnetism)</b>	<b>15</b>
<b>UNIT-IV</b>	<b>(Electromagnetic Induction of alternating current)</b>	<b>14</b>
<b>Total</b>		<b>55</b>

## **STRUCTURE OF QUESTION PAPER**

1. Question No. 1 to 9 will be of 1 mark each.
2. Question No. 10 to 17 will be of 2 marks each.
3. Question No. 18 to 22 will be of 3 marks each.
4. Question No. 23 to 25 will be of 5 marks each & there will be 100% internal choice.

## **SYLLABUS THEORY**

### **Unit 1 : Electrostatics**

Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.

Electrical field, electric field due to a point charge, electric-field lines; electric dipole, electric field due to a dipole; torque on a dipole in uniform electric field.

Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (Field inside and outside).

Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.

Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor, Van de Graaf generator.

### **Unit II: Current Electricity**

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current: Ohm's law, electrical resistance. V-I characteristics (linear and non linear), electrical energy and power, electrical resistivity and conductivity. Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance.

Internal resistance of a cell, potential difference and emf of cell, combination of cells in series and in parallel.

Kirchhoff's laws and simple applications. Wheatstone bridge, metre bridge.

Potentiometer-principle and its applications to measure potential difference and for comparing emf of two cells, measurement of internal resistance of a cell.

### **Unit III : Magnetic Effects of Current and Magnetism**

Concept of magnetic field. Oersted's experiment;  
Biot-savart law and its application to current carrying circular loop.  
Ampere's law and its applications to infinitely long straight wire, straight and toroidal solenoids.  
Force on a moving charge in uniform magnetic and electric fields. Cyclotron.  
Force on a current-carrying conductor in a uniform magnetic field Force between two parallel current-carrying conductors, definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometers its current sensitivity and conversion to ammeter and voltmeter.  
Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron. Magnetic field intensity due to a magnetic dipole (Bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements Para-, dia- and ferro-magnetic substances with examples, Electromagnets and factors affecting their strengths. Permanent magnets.

### **Unit IV: Electromagnetic Induction and Alternating Currents**

Electromagnetic induction, Faraday's laws, induced emf and current, Lenz's Law, Eddy currents: Self and multiple inductance.  
Need for displacement current.  
Alternating current, peak and rms value of alternating current/voltage; reactance and impedances; LC oscillations, (qualitative treatment only), LCR series circuit resonance; power in AC circuit, wattless current.  
AC generator and transformer.

## **PRACTICALS**

### **SECTION-A**

#### **Experiments**

1. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.
2. To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.
3. To verify the laws of combination (series/parallel) of resistance using a metre bridge.
4. To compare the emf of two given primary cells using potentiometer.
5. To determine the internal resistance of given primary cell using potentiometer.

6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
7. To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same.
8. To find the frequency of the A.C. mains with a sonometer.

### Activities

1. To measure the resistance and impedance of an inductor with or without iron core.
2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.
3. To assemble a household circuit comprising three, bulbs, three (on/off) switches, a – fuse and a power source.
4. To assemble the components of a given electrical circuit.
5. To study the variation in potential drop with length of a wire for a steady current.
6. To draw the diagram of a given open circuit comprising at least a battery, resistor rheostat, key ammeter and volt meter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

## SEMESTER-II (THEORY)

**Time: 3.00 hrs.**

**Time: 3.00 hrs.**

**Theory: 65 Marks**

**Practical: 25 Marks**

**Internal Assessment/CCE: 30 Marks**

**Total : 120 Marks**

		<b>Marks</b>
<b>UNIT-V</b>	<b>(Electromagnetic waves)</b>	<b>05</b>
<b>UNIT-VI</b>	<b>(Optics)</b>	<b>23</b>
<b>UNIT-VII</b>	<b>(Dual nature of matter)</b>	<b>08</b>
<b>UNIT-VIII</b>	<b>(Atoms of nuclei)</b>	<b>10</b>
<b>UNIT-IX</b>	<b>(Electronic Devices)</b>	<b>13</b>
<b>UNIT-X</b>	<b>(Communication System)</b>	<b>06</b>

**STRUCTURE OF QUESTION PAPER**

1. Question No. 1 to 10 will be of 1 mark each.
2. Question No. 11 to 20 will be of 2 marks each.
3. Question No. 21 to 25 will be of 3 marks each.
4. Question No. 26 to 29 will be of 5 marks each & there will be 100% internal choice.

**STRUCTURE OF QUESTION PAPER (PRACTICAL)**

	<b>Marks</b>
Two Experiments	13
Record of Activities	3
Viva on Activities	3
Record of Experiments	3
Viva of Experiments	3
<b>Total</b>	<b>25</b>

**SYLLABUS  
THEORY****Unit-I : Electromagnetic Waves**

Electromagnetic waves and their characteristics (qualitative ideas only).  
Transverse nature of electromagnetic waves.

Electromagnetic spectrum (Radio-microwaves, infra-red, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

**Unit-II Optics**

Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lens-maker's formula. Magnification, power of a lens, combination of thin lenses in contact. Refraction and dispersion of light through a prism.

Scattering of light-blue colour of the sky and reddish appearance of the sun at sunrise and sunset.

**Optical instruments** :- Human eye, image formation and accommodation, correction of eye defects (myopia, hypermetropia, presbyopia and astigmatism) using lenses. Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.



**Waves optics :** wave front and Huygens' Principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygens' principle. Interference. Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes. Polarisation, plane polarised light -Brewster's law, uses of plane polarised light and polaroids.

### **Unit-III Dual nature of Matter and Radiation**

Dual nature radiation, Photoelectric effect, Hertz and Lenard's observations'; Einstein's photoelectric equation, particle nature of light.

Matter waves-wave nature of particles, de Broglie relation. Davission-Germer experiment.

### **Unit-IV Atoms & Nuclei**

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.

Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Radioactivity- alpha, beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass-defect; binding energy per nucleon and its variation with mass number; nuclear fission and fusion,

### **Unit-V Electronic Devices**

Semiconductors; semiconductor Diode-I-V characteristics in forward and reverse bias, diode as a rectifier, I-V characteristics of LED, photodiode, solar cell and Zener diode, Zener diode as a voltage regulator. Junction transistor, transistor action; characteristics of a transistor: transistor as an amplifier (common emitter configuration) and oscillator, Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch.

### **Unit-VI Communication Systems**

Elements of a communication system (block diagram only); bandwidth of signals (speech, TV and digital data); bandwidth of transmission medium- Propagation of electromagnetic waves in the atmosphere, Sky and space wave propagation. Need for modulation. Production and detection of an amplitude modulated wave.

## **PRACTICALS**

### **Experiments**

1. To find the value of  $v$  for different values of  $u$  in case of a concave mirror and find their focal length.

2. To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/u$  and  $1/v$ .
3. To find the focal length of a convex mirror, using a convex lens.
4. To find the focal length of a concave lens, using a convex lens.
5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
6. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias.
7. To draw the characteristic curve of a zener diode and to determine the reverse breakdown voltage.
8. To study the characteristics of a common-emitter npn or pnp transistor and to find out the values of current and voltage gains.
9. To determine the refractive index of a glass slab using a travelling microscope.
10. To find refractive index of a liquid by using (i) Concave mirror. (ii) Convex lens and plane mirror.

### Activities

1. To study effect of intensity of light (by varying distance of the source) on an D.R.
2. To identify a diode, an LED, a transistor and IC, a resistor and a capacitor from mixed collection of such items.
3. Use of multimeter to (i) identify base of transistor, (ii) distinguish between npn and pnp type transistors, (iii) see the unidirectional flow of current in case of a diode and an LED. (iv) Check whether a given electronic component (e.g. diode, transistor or IC) is in working order.
4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
5. To observe polarization of light using two Polaroids.
6. To observe diffraction of light due to a thin slit.
7. To study the nature and size of the image formed by (i) convex lens (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
8. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

## 47. CHEMISTRY

### SEMESTER-1

**Time: 2:30 hrs.**

**Theory : 55 Marks**  
**Internal Assessment/CCE : 25 Marks**  
**Total : 80 Marks**  
**MARKS**

Unit I	Solid State	8
Unit II	Solution	8
Unit III	Electrochemistry	8
Unit IV	Chemical Kinetics	8
Unit V	Surface Chemistry	8
Unit VI	General Principles and Processes of Isolation of Elements	5
Unit VII	p- Block elements	<u>10</u>
<b>Total</b>		<b>55</b>

### QUESTION PAPER

1. Question No. 1 to 9 will be of 1 mark each.
2. Question No. 10 to 17 will be of 2 marks each.
3. Question No. 18 to 22 will be of 3 marks each.
4. Question No. 23 to 25 will be of 5 marks each & there will be 100% internal choice.

### SYLLABUS THEORY

#### **Unit 1: Solid, State**

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea), unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties.

#### **Unit II : Solutions**

Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties - relative lowering of vapour pressure, elevation of B.P., depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass.

#### **Unit III: Electrochemistry**

Redox reactions; conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and laws of electrolysis (elementary idea) dry cell-electrolytic cells

and Galvanic cells; lead accumulator, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, fuel cells; corrosion.

#### **Unit IV: Chemical Kinetics**

Rate of a reaction (average and instantaneous), factors affecting rates of reaction; concentration, temperature, catalyst; order and molecularity of a reaction: rate law and specific rate constant, integrated rate equations and half life (only for zero and first order reactions); concept of collision theory (elementary idea, no mathematical treatment).

#### **Unit V: Surface Chemistry**

Absorption physisorption and chemisorption; factors affecting adsorption of gases on solids; catalysis; homogeneous and heterogeneous, activity and selectivity; enzyme catalysis; colloidal state: distinction between true solutions, colloids and suspensions; lyophilic, lyophobic, multimolecular and macromolecular/colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation; emulsion, types of emulsions.

#### **Unit VI: General Principles and Processes of Isolation of Elements**

Principles and methods of extraction – concentration, oxidation, reduction electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and Iron.

#### **Unit VII: p-Block Element**

**Group 15 elements :** General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; nitrogen - preparation, properties and uses; compounds of nitrogen- preparation and properties of ammonia and nitric acids, oxides of nitrogen (structure only); Phosphorous-allotropic forms; compounds of phosphorous preparation and properties of phosphine, halides ( $\text{PCl}_3, \text{PCl}_5$ ) and oxoacids (elementary idea only).

**Group 16 elements :** General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; dioxygen; preparation, properties and uses; simple oxides; Ozone, Sulphur - allotropic forms; compounds of sulphur preparation, properties and uses of sulphur dioxide, sulphuric acid, industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).

**Group 17 elements :** (General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens; preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of halogens (structures only).

**Group 18 elements :** General introduction, electronic configuration. Occurrence, trends in physical and chemical properties, uses.

#### **Practicals Syllabus.**

##### **A. Surface Chemistry**

- (a) Preparation of one lyophilic and one lyophobic sol.

Lyophilic sol - starch, egg albumin and gum.

Lyophobic sol - aluminium hydroxide, ferric hydroxide, arsenious sulphide.

- (b) Study of the role of emulsifying in stabilizing the emulsions of different oils.

### **B. Chemical Kinetics**

- (a) Effect of concentration and temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid.
- (b) Study of reaction rates of any one of the following:-
- Reaction of iodide ion with hydrogen peroxide at room temperature using different concentration of iodide ions.
  - Reaction between potassium iodate,  $\text{KIO}_3$ , and sodium sulphite : ( $\text{Na}_2 \text{SO}_3$ ) using starch solution as indicator (clock reaction).

### **C. Thermochemistry**

Any one of the following experiments

- Enthalpy of dissolution of copper sulphate or potassium nitrate.
- Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH)
- Determination of enthalpy change during interaction (Hydrogen bond formation) between acetone and chloroform.

### **D. Electrochemistry**

Variation of cell potential in  $\text{Zn}/\text{Zn}^{+2}|\text{Cu}^{+2}/\text{Cu}$  with change in concentration of electrolytes ( $\text{CuSO}_4$  or  $\text{ZnSO}_4$  at room temperature.

### **E. Chromatography**

- Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of  $R_f$  values.
- Separation of constituents present in an inorganic mixture containing two cations only (constituents having wide difference in  $R_f$ , values to be provided).

### **F. Determination of concentration/molarity of $\text{KMnO}_4$ , solution by titrating it against a standard Solution of :**

- Oxalic acid.
- Ferrous ammonium sulphate.

(Students will be required to prepare standard solutions by weighing themselves).

## **SEMESTER-II**

**Time: 3.00 hrs.**  
**Time: 3.00 hrs.**

**Theory: 65 Marks**  
**Practical : 25 Marks**

**Internal Assessment/CCE: 30 Marks****Total : 120 Marks**

		<b>MARKS</b>
Unit I	d & f Block elements	9
Unit II	Coordination Compounds	7
Unit III	Haloalkanes and Haloarenes	7
Unit IV	Alcohols phenols and Ethers	9
Unit V	Aldehydes, ketones and carboxylic acid	9
Unit VI	Organic Compounds Containing Nitrogen	7
Unit VII	Biomolecules	7
Unit VIII	Polymers	5
IX	Chemistry in Everyday life	5
<hr/> <b>Total</b>		<b>65</b>

**STRUCTURE OF QUESTION PAPER**

1. Question No. 1 to 10 will be of 1 mark each.
2. Question No. 11 to 20 will be of 2 marks each.
3. Question No. 21 to 25 will be of 3 marks each.
4. Question No. 26 to 29 will be of 5 marks each & there will be 100% internal choice.

**STRUCTURE OF QUESTION PAPER (PRACTICAL)**

Volumetric Analysis	8
Mixture Analysis	6
Content based Experiment	6
Class record & viva	5
Total Marks	<hr/> 25 <hr/>

**SYLLABUS  
THEORY****Unit-I d and f Block Elements**

General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals-metallic character, ionization, enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation. Preparation and properties of  $K_2Cr_2O_7$ , and  $KMnO_4$ .

**Lanthanoids** - electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction.

**Actenoids** - Electronic configuration, oxidation states.

## **Unit-II Coordination Compounds**

Coordination compounds - introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds, bonding; isomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).

## **Unit-III Haloalkanes and Haloarenes.**

### **Haloalkanes:**

Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions.

### **Haloarenes:**

Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only)

Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

## **Unit -IV Alcohols, Phenols and Ethers**

**Alcohols:** Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses, some important compounds - methanol and ethanol.

**Phenols:** Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.

**Ethers:** Nomenclature, methods of preparation, physical and chemical properties, uses.

## **Unit-V Aldehydes, Ketones and Carboxylic Acids**

**Aldehydes and Ketones:** Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses.

**Carboxylic Acids:** Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

## **Unit-VI Organic compounds containing Nitrogen**

**Amines:** Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.

**Cyanides and Isocyanides** - will be mentioned at relevant places in context.

**Diazonium Salts** : Preparation, chemical reactions and importance in synthetic organic chemistry.

### **Unit-VII Biomolecules**

**Carbohydrates** - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); importance

**Proteins** - Elementary idea of amino acids, peptide bond, polypeptides, proteins, primary structure, secondary structure, tertiary structure and quaternary structure (qualitative idea only), denaturation of proteins; enzymes.

**Vitamins**- Classification and functions.

**Nucleic Acids:** DNA & RNA .

### **Unit-VIII Polymers**

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers; natural and synthetic like polythene, nylon, polyesters, bakelite, rubber.

### **Unit-IX Chemistry in everyday life :**

- 1. Chemicals in medicines** analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.
- 2. Chemicals in food-** preservatives, artificial sweetening agents.
- 3. Cleansing agents** - soaps and detergents, cleansing action.

## **PRACTICAL**

### **A. Preparation of Inorganic Compounds**

- Preparation of double salt of ferrous ammonium sulphate or potash alum.
- Preparation of potassium ferric oxalate.

### **B. Preparation of Organic Compounds**

Preparation of any two of the following compounds

- Acetanilide
- Di-benzal acetone
- p-Nitroacetanilide,
- Aniline yellow or 2-Naphthol aniline dye.
- Iodoform.

### **C. Test for the functional groups present in organic compounds:**

Unsaturation, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino (primary) groups..

### **D. Study of carbohydrates, fats and proteins in pure form and detection of their presence in given food stuffs.**

### **E. Qualitative analysis**



Determination of one cation and one anion in a given salt.

**Cations** -  $\text{Pb}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{As}^{3+}$ ,  $\text{Al}^{3+}$ ,  $\text{Fe}^{3+}$ ,  $\text{Mn}^{2+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Co}^{2+}$ ,  $\text{Ni}^{2+}$ ,  $\text{Ca}^{2+}$ ,  $\text{Sr}^{2+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{NH}_4^+$

**Anions** -  $\text{CO}_3^{2-}$ ,  $\text{S}^{2-}$ ,  $\text{SO}_3^{2-}$ ,  $\text{NO}_2^-$ ,  $\text{NO}_3^-$ ,  $\text{Cl}^-$ ,  $\text{Br}^-$ ,  $\text{I}^-$ ,  $\text{PO}_4^{3-}$ ,  $\text{C}_2\text{O}_4^{2-}$ ,  $\text{CH}_2\text{COO}^-$   
(Note: Insoluble salts excluded)

## PROJECT

Scientific investigations involving laboratory testing and collecting information from other sources.

### A few suggested Projects

Study of presence of oxalate ions in guava fruit at different stages of ripening.

Study of quantity of casein present in different samples of milk.

Preparation of soyabean milk and its comparison with the natural milk with respect to curd formation, effect of temperature etc.

Study of the effect of potassium bisulphate as food preservative under various conditions (temperature, concentration, time etc.)

Study of digestion of starch by salivary amylase and effect of pH and temperature on it.

Comparative study of the rate of fermentation of following material wheat flour, gram flour, Potato juice, carrot juice etc.

Extraction of essential oils present in saunf (aniseed), Ajwain (carum) Illaichi (cardamom).

Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.

**Note:** Any investigatory project, which involves about 10 periods of work, can be chosen with the approval of the teacher.

## 48. BIOLOGY SEMESTER-1

**Time: 2:30 hrs.**

**Theory : 55 Marks**

**Internal Assessment/CCE : 25 Marks**

**Total : 80 Marks**

### DISTRIBUTION OF MARKS

Unit -I

Sexual Reproduction

30

Unit-II	Genetics and Evolution	25
	Total	55

## **STRUCTURE OF QUESTION PAPER**

1. Question No. 1 to 9 will be of 1 mark each.
2. Question No. 10 to 17 will be of 2 marks each.
3. Question No. 18 to 22 will be of 3 marks each.
4. Question No. 23 to 25 will be of 5 marks each & there will be 100% internal choice.

## **SYLLABUS THEORY**

### **Unit -1 Sexual Reproduction**

- Pollination and fertilization in flowering plants
- Development of seeds and fruits.
- Human reproduction: Reproductive system in Male and female, menstrual cycle, production of gametes, fertilization, implantation, embryo development, pregnancy and parturition.
- Reproductive health, birth control, contraception and sexually transmitted diseases.

### **Unit-II Genetics and Evolution**

- Mendelian inheritance
- Chromosome theory of inheritance, deviations from Mendelian ratio (gen interaction -incomplete dominance, co-dominance, complementary genes multiple alleles).
- Sex determination in human beings: XX, XY.
- Linkage and crossing over.
- Inheritance pattern of haemophilia and blood group in human beings.
- DNA: replication, transcription, translation.
- Gene expression and regulation.
- Genome and Human Genome Project.
- DNA fingerprinting.
- Evolution: Theories and evidences.

## **PRACTICAL**

### **Syllabus of semester -1**

1. Study of pollen grains on a slide.
2. Study of flowers adapted to pollination by different agencies (wind, insect)

3. Study of pollen germination on a slide.
4. Study and identify stages of gamete development i.e. T.S of testis and T.S of ovary through permanent slides.
5. Study meiosis in Onion bud cell or grasshopper testis through permanent slides.
6. Study of T.S of blastula through permanent slide.
7. Study mendelian inheritance using seeds of different colour/size of any plant.
8. Study prepared pedigree charts of genetic traits such as rolling of tongue, blood groups, window's peak, colour blindness.
9. Exercise on controlled pollination -Emasculation, tagging and bagging.
10. Study analogous and homologous organs in various plants and animals.

### **SEMESTER-II**

**Time: 3.00 hrs.**

**Time: 3.00 hrs.**

**Theory: 65 Marks**

**Practical : 25 Marks**

**Internal Assessment/CCE: 30 Marks**

**Total : 120 Marks**

#### **DISTRIBUTION OF MARKS**

Unit-III	Biology and Human Welfare	23
Unit-IV	Biotechnology and its Application	19
Unit-V	Ecology and Environment	23
	Total	65

#### **STRUCTURE OF QUESTION PAPER**

1. Question No. 1 to 10 will be of 1 mark each.
2. Question No. 11 to 20 will be of 2 marks each.
3. Question No. 21 to 25 will be of 3 marks each.
4. Question No. 26 to 29 will be of 5 marks each & there will be 100% internal choice.

#### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

**Time: 3.00 hrs.**

**25 : Marks**

1. Experiment and Spotting 15

2.	Record of one investigatory and Viva based on the project	5
3.	Class record and Viva based on experiments	5
Total		25

## **SYLLABUS**

### **Unit III : Biology and Human Welfare**

- Animal husbandry
- Basic concepts of immunology, vaccines.
- Pathogens and parasites.
- Plant breeding, tissue culture, food production.
- Microbes in household food processing, industrial production, sewage treatment and energy generation.
- Cancer and AIDS.
- Adolescence, drugs and alcohol abuse.

### **Unit IV: Biotechnology and its Application**

- Recombinant DNA technology.
- Application in Health, Agriculture and Industry.
- Genetically modified (GM) organisms; biosafety issues.
- Insulin and Bt cotton.

### **Unit V: Ecology and Environment**

- Ecosystem: components, types and energy flow.
- Species, population and community.
- Ecological adaptation.
- Centres of diversity and conservation of biodiversity, National Parks and Wild Life Sanctuaries.
- Environmental issues.

## **PRACTICAL**

### **Syllabus of semester -2**

1. Collect and study soil from different sites and study them for texture and moisture content.
2. Study the pH and water holding capacity of soil correlate with the kinds of plants found in them.
3. Collect water from different water bodies around you and study them for pH clarity and presence of any living organisms.

4. Study the presence of any suspended particulate matter in air at the two widely different sites.
5. Study of plant population density by quadratic method.
6. Study of plant population frequency by quadrature method.
7. Study of plants and animals found in xerophytes conditions. Comment upon their adaptation ecosystem.
8. Study plants and animals found in aquatic conditions. Comment upon their adaptation ecosystem.
9. To identify common disease causing organisms like Ascaris, Endameba, Plasmodium, ringworm. Comment on symptoms of diseases that they cause through permanent slides or specious.

## **49. GEOLOGY**

### **THEORY**

**Time : 2<sup>1</sup>/<sub>2</sub> Hrs.**

**SEMESTER-I**

**Theory : 55 Marks**

**CCE/Int. Assessment : 25 Marks**

**Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be one theory paper for semester-I comprising of 24 Questions. All questions will be compulsory.
2. Marks for each question are indicated along with.
3. Questions No. 1 to 10 are objective type i.e. one line or few words, carrying one mark each. 1x10=10
4. Questions No. 11 to 15 are very short answer type carrying 2 marks each. Answer to each questions will be in 20-25 words. 2x5=10
5. Question No. 16 to 20 are short answer type carrying 3 marks each, Answer to each question will be in 50-60 words. 3 x 5 = 15
6. Question No. 21 to 24 are long answer type questions carrying 5 marks each. Answer to each question will be in 175-200 words. 5x4=20

### **SYLLABUS**

1. **Physical Geology :**  
The earth-origin, age and interior-Elementary idea.
2. **Structural Geology :**  
Elementary idea of folds, faults and unconformity - their identification by major features, geometric classification, Mountain, their types from Geosynclines to mountains.

### 3. Palaeontology :

Fossils - their utility, Elementary idea of the evolution of life during geologic past. Morphological features of brachiopods, molluscs, trilobites. Elementary idea of Gondwana plants and shivalik vertebrates.

### PRACTICAL (SYLLABUS)

1. Reading and interpretation of geological maps and topographical sheets.
2. Preparation of cross section along given lines in the geological maps.

### SEMESTER-II

Time : 3 Hrs.

Theory : 65 Marks  
CCE/Int. Asses. : 30 Marks  
Practicals : 25 Marks  
Total : 120 Marks

### STRUCTURE OF QUESTION PAPER

1. There will be one theory paper semester-II comprising of 29 Questions. All questions will be compulsory.
2. Marks for each question are indicated along with.
3. Questions No. 1 to 10 are objective type i.e. one line or few words, carrying one mark each.  $1 \times 10 = 10$
4. Questions No. 11 to 20 are very short answer type, carrying 2 marks each. Answer to each Questions will be in 20-25 words.  $2 \times 10 = 20$
5. Question No. 21 to 25 are short answer type, carrying 3 marks each. Answer to each question will be in 50-60 words.  $3 \times 5 = 15$
6. Question No. 26 to 29 are long answer type questions, carrying 5 marks each. Answer to each question will be in 175-200 words.  $5 \times 4 = 20$

### SYLLABUS

#### 1. Stratigraphy

The story of the rocks the Precambrian Era, the Palaeozoic Era, The Mesozoic Era, The Cenozoic Era. A general survey of the Indian geopoic sub-divisions. Configuration of India, their board divisions.

#### 2. Petrology

Subdivisions of rocks- Broad classification of the various types of rocks Sedimentary, Igneous and Metamorphic, General idea of the important structures found in those rocks. General idea of the minerological, Composition of these rocks.

#### 3. Minerology

Minerals as constituents of rocks. General survey of the rocks forming minerals, like quartz, feldspars, micas, pyroxenes, amphiboles. Some important physical properties of these minerals.

#### 4. Crystallography

The crystal its type, general morphological characters of crystals of the cubic system. General idea of the various crystallographic system.

### **5. Economic Geology**

Mineral wealth, its economic significance. A general survey of the economic mineral deposits of India, their distribution particularly of coal, iron, petroleum, gold, copper, lead and zinc.

### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

The examiner will set the question paper on the spot. The distribution of marks in the paper will be as follows:

1. At least 10 minerals will be given to the students for identification. Students are required to attempt/ identify 5 minerals out of these. The question will carry 5 marks.
2. 10 Fossils will be given to the students for identification. Student will identify 5 fossils out of these. The question will carry 5 marks.
3. The examiner will ask the student to plot an outline map of India the distribution of deposits of any two minerals. The student will attempt any one. The question will carry 5 marks.
4. The examiner will give two geographical maps for study and for the identification of their various features. Students are required to attempt any one of these two maps. The question will carry 6 marks.
5. 4 marks are reserved for notebook and record.

**Note :- The Practical Examination of whole syllabus ( Sem. I and Sem. II) for practical will only be conducted in semester -II.**

### **PRACTICAL (SYLLABUS)**

**Time: 3 hrs**

**25Marks**

1. Megascopic identification of important rocks and minerals.
2. Distribution of mineral deposits in India and their location. Plotting on an outline map of India.
3. Identification of some important plants and animals (Vertebrate and invertebrate) Fossils.

### **50. BIOTECHNOLOGY**

**Time: 2½ hrs.**

**SEMESTER-1**

**Theory: 55 Marks**

**CCE/IA: 25 Marks**

**Total: 80 Marks**

### **STRUCTURE OF QUESTION PAPER THEORY**

1. There will be one theory paper comprising of 25 questions. All questions will be compulsory.
2. Marks of each question are indicated against it.
3. Question Nos. 1-10 are objective type questions carrying 1 mark each. Answer to each question will be in one line or few words only.  $1 \times 10 = 10$
4. Question Nos. 11-16 are short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.  $2 \times 6 = 12$
5. Question Nos. 17-22 are short answer type questions carrying 3 marks each, Answer to each question will be in 40-50 words.  $3 \times 6 = 18$
6. Question Nos. 23-25 are long answer type questions carrying 5 marks each. Answer to each question will be in 80-100 words.  $3 \times 5 = 15$
7. The question paper should be strictly from the prescribed syllabus based on above mentioned guidelines.
8. Candidates will be provided with one answer book of 32 pages only, No extra/combination sheet will be provided.

**SEMESTER-I  
SYLLABUS (THEORY)**

**UNIT-CELL CULTURE TECHNOLOGY**

**Chapter I Microbial Culture and Applications**

**20 marks**

- Introduction.
- Microbial Culture Techniques.
- Measurement and Kinetics of microbial growth.
- Scale up of microbial process.
- Isolation of microbial products,
- Strain isolation and improvement.
- Applications of microbial culture technology.
- Bioethics in microbial technology.

**Chapter II Plant Cell Culture and Applications**

**17 marks**

- Introduction.
- Cell and Tissue Culture Techniques.
- Applications of Cell and Tissue Culture.
- Gene Transfer Methods in Plants.
- Transgenic in Agriculture and Molecular Breeding.
- Bioethics in Plant Genetic Engineering.

**Chapter III Animal Cell Culture and Applications**

**18 marks**

- Introduction.
- Animal Cell Culture Techniques.
- Characterization of Cell Lines,



- Scale-up of Animal Culture Process,
- Applications of Animal Cell Culture.
- Stem Cell Technology.
- Bioethics of Genetic Engineering in Animals.

## **SEMESTER-II**

**Time : 3 Hrs.**

**Theory Paper : 65 Marks**

**Practical Paper : 25 Marks**

**Internal Assessment/CCE : 30 Marks**

**Total : 120 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be one theory paper comprising of 30 questions. All questions will be compulsory.
2. Marks of each question are indicated against it.
3. Question Nos. 1-12 are objective type questions carrying 1 mark each. Answer to each question will be in one line or few words only.  $1 \times 12 = 12$
4. Question Nos. 13-19 are short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.  $2 \times 7 = 14$
5. Question Nos. 20-27 are short answer type questions carrying 3 marks each. Answer to each question will be in 40-50 words.  $3 \times 8 = 24$
6. Question Nos. 28-30 are long answer type questions carrying 5 marks each. Answer to each question will be in 80-100 words.  $5 \times 3 = 15$
7. There will be no objective type question such as yes/no, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. The question paper should be strictly from the prescribed syllabus based on above mentioned guidelines.

## **SYLLABUS (THEORY)**

### **UNIT-PROTEIN AND GENE MANIPULATION**

#### **Chapter-I Protein Structure and Engineering**

**23 marks**

- Introduction to the world of Proteins.
- 3-D shape of Proteins.
- Structure Function relationship in Proteins.
- Purification of Proteins.
- Characterization of Proteins.
- Protein based products.
- Designing Proteins.
- Proteomics.

#### **Chapter-II : Recombinant DNA Technology**

**22 marks**

- Introduction.

- Tools of DNA Technology.
- Making Recombinant DNA.
- DNA Library.
- Introduction of Recombinant DNA into host cells.
- Identification of recombinants.
- Polymerase Chain Reaction (PCR).
- DNA Probes.
- Hybridization Techniques.
- DNA Sequencing.
- Site directed mutagenesis.

### **Chapter-II Genomics and Bioinformatics**

**20 marks**

- Introduction.
- Genome Sequencing projects.
- Gene Prediction and counting.
- Genome similarity, SNP's and comparative genomics.
- Functional Genomics.
- History of Bioinformatics.
- Sequences and Nomenclature.
- Information Sources.
- Analysis using Bioinformatics, tools.

**One practical Paper**

### **PRACTICAL**

**Time: 3 Hours**

**Marks: 25**

### **STRUCTURE OF QUESTION PAPER**

#### **Distribution of marks:**

- |                               |          |
|-------------------------------|----------|
| 1. One experiment.            | 7 marks. |
| 2. Practical record           | 4 marks  |
| 3. Viva on practical,         | 4 marks  |
| 4. Project work: (a) Write up | 5 marks  |
| (b) Viva                      | 5 marks  |

**Note: The maximum number of students to be examined by the practical examiner should not be more than 20 students per group.**

### **PRACTICAL SYLLABUS (SEMESTER-I)**

**Note- Every student is required to do the following experiments during Semester-I**

## **LIST OF EXPERIMENTS**

1. Bacterial transformation using any plasmid.
2. Multiplication of tobacco by nodal bub culture
3. Data retrieval and database search using internet site NCBI
4. Production and estimation of ethanol from microbial culture
5. Determination of LCG in Urine (Pregnancy Test)
6. Project Work.

## **PRACTICAL SYLLABUS (SEMESTER-II)**

**Note: Every student is required to do the following experiments during Semester-II**

### **LIST OF EXPERIMENTS:**

1. Isolation of bacterial plasmid DNA and its detection by gel electrophoresis.
2. Restriction digestion of plasmid DNA and its analysis by gel electrophoresis.
3. Download a DNA and protein sequence from internet, analysis and comment on it.
4. Determination of N-terminal of a protein.
5. Ion-exchange chromatography for proteins.
6. Reading of a DNA sequencing gel and arrive at the sequence,
7. Project Work.

**Note:-** Practicals will be conducted from syllabus of Semester-I during Ist Semester but no examination will be conducted by the board at the end of Semester-I. Practical examination will be held at the end of IInd Semester on the basis of 100% Syllabus.

(Semester-I and Semester-II)

## **51. COMPUTER APPLICATION SEMESTER-I**

**Time : 2½ hrs.**

**55 Marks**  
**CCE/Internal Assessment 25 Marks**  
**Total Marks 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

- (i) The Theory Question Paper will consist of 18 Questions. Question No. 1 to 10 will be of 1 mark each. Question No. 11 to 15 will be of 3 marks each and Question No. 16 to 18 will be of 10 marks each.
- (ii) There will be no choice in Question No. 1 to 15, however internal choice may be given in question No. 16, 17 and 18.

## **SYLLABUS**

### **UNIT -I    BOOLEAN ALGEBRA**

#### **Boolean Algebra**

Introduction to Boolean Algebra

Difference between Boolean Algebra and Switching Algebra Binary Valued Quantities and Bistable devices

Truth Tables

The Principle of Duality

Theorems of Boolean Algebra

Idempotent law, Commutative law, Associative law, Distributive law Absorption law, Demorgan's law and its applications

Boolean Functions

Minimization of Boolean Function

Complement of a function

Canonical forms for Boolean Functions

Karnaugh Map

**Logic Gates-** And Gate, OR Gate, NOT Gate, NAND Gate, NOR Gate.

#### **Logical Circuits**

Converting Expressions to Logic Circuits

The Universal NAND Gate

The Universal NOR Gate

Exclusive Or and Equivalence Functions

#### **Design combination circuits**

Design of Half Adder

Design of Full Adder

Encoder Decoder

### **UNIT-II    STRUCTURES**

Defining a Structure

Referencing Structure elements

Nested Structures

Structures and Arrays

Passing Structure to Functions

User defined data types

Use of Declaration

Enumerated Data types

### **Classes and Objects**

Classes, Declaration of Classes, Scope of Class and its members

Data Members, Member Functions

Default labels

Data hiding and encapsulation

Arrays within a class, Functions in a class, Inline Functions, Private and Public member function

Nesting of Member functions

Using objects, Arrays of objects

Accessing class data members, Accessing member functions, Objects as function arguments

Static Class members

### **UNIT-III CONSTRUCTORS. DESTRUCTORS AND FUNCTION OVERLOADING**

#### **Constructors**

Need for Constructors

Declaration, Definition and Characteristics Default Constructors

Parameterized constructors

Copy constructors

Dynamic Initialization of objects Declaration,

#### **Destructors**

Definition and Characteristics

Function Overloading

Steps involved in finding the best match

## **SEMESTER-II**

**Time: 3 hrs**

**Theory : 65 Marks**

**CCE/Internal assessment : 30 Marks**

**THEORY**

**Practical : 25 Marks**

**Total : 120 Marks**

### **UNIT WISE DISTRIBUTION OF MARKS**

Unit-I	Inheritance and Pointers
Unit-II	Data Structures
Unit-III	File Handling in C++
Unit-IV	Introduction to Database Concepts
Unit- V	Data Communications & Computer Networks

## **STRUCTURE OF QUESTION PAPER**

- (i) The Theory Question Paper will consist of 22 Questions. Question No. 1 to 11 will be of 1 mark each. Question No. 12 to 19 will be of 3 marks each and Question No. 20 to 22 will be of 10 marks each.
- (ii) There will be no choice in Question No. 1 to 19, however internal choice may be given in question No. 20 to 22.

## **SYLLABUS**

### **UNIT I INHERITANCE AND PO INTERS**

#### **Inheritance: Extending Classes**

Need for Inheritance  
 Derived and Base classes visibility modes  
 Single Inheritance & Multilevel inheritance  
 Access control in Privately derived class & Publicity class  
 Making a private member inheritable

#### **Pointers**

C++ Memory Map  
 Dynamic and static memory of Pointers  
 Declaration and Initialization of Pointers  
 Dynamic Allocation Operators  
 Pointers and Arrays  
 Pointers and Functions  
 Pointers and Structures

### **UNIT II DATA STRUCTURES**

#### **Introduction & Elementary Data Representation**

Different data structure -Arrays, Stacks and Queues, Linked Lists, Binary Trees  
 One and two dimensional Arrays  
 Sequential allocation and address calculation

Algorithm for one Dimensional arrays, Traversal, Search (Linear and Binary) Insertion, deletion, sorting, merging  
Implementation of above concepts in c++

### **UNIT III FILE HANDLING IN C++**

File Organisation  
Basic Technology  
Logical Data Organisation  
Different file Operations  
File organization and access mode  
Sequential File, Direct Access organization, Indexed Sequential organization, Access modes  
File handling in c++

### **UNIT IV INTRODUCTION TO DATABASE CONCEPTS**

Purpose of database  
Database abstraction -Various levels of database implementation  
Different Data Models -Relational, Network, Hierarchical  
Relational Data Model  
Terminology, Views, Structure of Relational Database  
Normalization -First, Second, Third. normal forms  
Comparison of data models

### **UNIT V DATA COMMUNICATIONS AND COMPUTER NETWORKS**

Local Area Network and Wide Area Netwprks  
Networking Topologies  
Communication Protocols  
Base elements of a communication system  
Transmission Media -Wire pairs, Coaxial cable, Microwave system  
Còmunication Satellites, Optical fibers  
Data Transmission Models -Simplex, Half -duplex, Full- dulex

## **PRACTICAL**

**Time: 3 hrs**

**Marks: 25**

### **EVALUATION SCHEME FOR PRACTICAL**

1. Programming in C++ 5 Marks  
One programming problem in C++ to be solved during the examination on computer. Marks for the programming are to be given on the basis of program documentation/indentation, algorithm and result (output)

**2. Project Work** **5 Marks**

Project must be taken up from the real life problems.

Marking scheme for the project:

- Programming Style, Structured Design 2 Marks
  - Userfriendly Input/Output and online help 2 Marks
  - Documentation (User Manual) 1 Marks
3. Data Base Concepts 5 Marks
4. Viva-Voce 5 Marks
5. Practical record file 5 Marks

Record of at least 20 programs in C++ (with listing and Outputs) based on programming concepts and 5 on data base concepts

**SYLLABUS**

All the relevant practical exercise will be based upon the relevant chapters mentioned in the Theory Syllabus.

**52. ELEMENTS OF ELETRONICS ENGINEERING**

**SEMESTER-I**

<b>Theory paper</b>	<b>Time: 2 Hrs</b>	<b>30 : Marks</b>
<b>Practical</b>	<b>Time: 3 Hrs</b>	<b>40 : Marks</b>
	<b>CCE/Internal Assessment : 10 Marks</b>	
		<b>Total : 80 Marks</b>

**THEORY**

**STRUCTURE OF QUESTION PAPER**

Eight questions of five marks each will be set in the question paper. First question will be of objective type, consist five parts one mark each and it will be compulsory. A question may consist of more than one part. Students are required to attempt any five questions from remaining seven questions. The question paper will be evenly distributed from the syllabus prescribed for semester -I.

**SYLLABUS**

- 1. Modulation:-** Introduction, need of modulation, types with shapes, side bands production in A.M. and F.M. Phase modulation, Classification of A.M.
- 2. Methods :** Typical circuit of P.M. modulators and their description.
- 3. Detection:-** Introduction, needs of detection, Square law diode detection, grid leak detector, linear diode detection, anode bend detection.



Types of video detectors and their typical circuits, Phase shift discriminator, Ratio detector, Unifiers and their detailed descriptions.

## **PRACTICAL STRUCTURE OF QUESTION PAPER**

**Time: 3 Hrs**

**Max marks: 40**

**The description of marks will be follows: 5 marks**

- |                             |          |
|-----------------------------|----------|
| 1. Viva –Voce               | 5 marks  |
| 2. Note book/Sessional Work | 5 marks  |
| 3. Actual Performance       | 30 marks |

**(a) Major Practical:**

The examiner shall set any three practicals from the practical Nos 1,2,3. The candidate shall choose any two from these. The examiner will ask the student to perform any one from the two chosen by him. 20 marks

**(b) Minor Practical:**

The examiner shall set any three practicals from the practical Nos. 4, 5, 6. The candidate shall choose any two from these. The examiner will ask the student to perform any one from the two chosen by him. 10 marks

## **SYLLABUS**

1. To construct an oscillator
2. To wire an A.P. amplifier
3. To wire a circuit from a given blue print.
4. Stage description of an A.M. Radio-Receiver
5. Fault finding in different stages of a Radio-Receiver
6. Tuning of a Radio-Receiver with the help of signal generation.

## **SEMESTER-II**

**Theory Paper**  
**Practicals**

**Time: 2 Hrs**  
**Time: 3 Hrs**

**40 : Marks**  
**60 : Marks**

**Internal Assessment : 20 Marks**

**Total : 120 Marks**

## **THEORY STRUCTURE OF QUESTION PAPER**

Eleven questions of five marks each will be set in the question paper. First question will be of objective type, consist five parts one mark each and it will be compulsory. A question may consist of more than one part. Students are required to attempt any seven questions from remaining ten questions. The question paper will be evenly distributed from the syllabus prescribed for semester -II.

## **SYLLABUS**

- 1. Oscillators :-** Introduction, requirements, various types, detailed circuit description of Hartley and colpits oscillators, Multi Vibrators-Classification. Astable and Biastable multivibrators and their detailed circuit description.
- 2. Amplifiers :-** Introduction, A.F and Power amplifiers, Push-pull amplifier and their circuit description, feedback.  
**Amplifiers :-** Voltage Feedback Amp., R.C coupled amplifier with voltage inverse feed back, feedback amp. Characteristics of Tuned voltage and power amplifiers. Op-Amplifiers(Operational Amps), their functions and uses.

## **PRACTICAL**

**Time : 3 Hrs**                      **SRUCTURE OF QUESTION PAPER**                      **Marks: 60**

The distribution of marks will be follows:

- |                             |          |
|-----------------------------|----------|
| 1. Viva -voce               | 10 Marks |
| 2. Note book/Sessional work | 10 Marks |
| 3. Actual Performance       | 40 Marks |

**(a) Major Practical: (25Marks)**

The examiner shall set any three practicals from the practical Nos.5, 7, 8. The candidate shall choose any two from these. The examiner will ask the student to perform any one from the two chosen by him.

**(b) Minor Practical: (15Marks)**

The examiner shall set any three practicals from the practical Nos. 1, 2, 3, 4, 6. The candidate shall choose any two from these. The examiner will ask student to perform any one from the two chosen by him.

## **SYLLABUS (PRACTICAL)**

1. Study of selectivity in a Radio-Receiver
2. Study of sensitivity in a Radio-Receiver
3. Study of fidelity in a Radio-Receiver
4. Stage description of a T.V Receiver
5. Fault finding in different stages of a T.V. Receiver.

6. Study of E.H.T stage of a T.V. Receiver.
7. Verification of basic truth tables.
8. To construct a Flip-Flop circuit.

**53. BUSINESS STUDIES – II**  
**(COMMERCE GROUP)**  
**PAPER - I**  
**SEMESTER - I**

**Time = 2½ Hours**

**Theory : 40 Marks**  
**IA/CCE : 20 Marks**  
**Total : 60 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question paper will have 3 Sections A, B & C.

**SECTION A**

Question No.1 will consist of 8 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-I. Answer of each question should be given in 1-15 words.

**SECTION B**

This section will cover Part I of the syllabus.

2 questions of 2 marks each will be set. Answer of each question should be given in 8-10 lines.

2 questions of 3 marks each will be set. Answer of each question should be given in 10-15 lines.

1 question of 6 marks with internal choice will be set. Answer limit should be 2-3 pages.

**SECTION C**

This section will cover Part II of the syllabus.

2 questions of 2 marks each will be set. Answer of each question should be given in 8-10 lines.

2 questions of 3 marks each will be set. Answer of each question should be given in 10-15 lines.

1 question of 6 marks with internal choice will be set. Answer limit should be 2-3 pages.

## **SYLLABUS PART-I**

### **PRINCIPLES AND FUNCTIONS OF MANAGEMENT**

#### **UNIT-I: NATURE AND SIGNIFICANCE OF MANAGEMENT.**

- (a) Management Concept, Objectives and Importance.
- (b) Management as an activity, process, discipline and as a group.
- (c) Nature of Management as a science as an art and as a profession.
- (d) Management and Administration Comparison.
- (e) Level of Management-Top, Middle & Supervisory.
- (f) Management Function-Planning, Organising, Staffing, Directing coordinating and controlling.

#### **UNIT-II PRINCIPLES OF MANAGEMENT**

- (a) Principles of Management: Meaning, Nature & Significance.
- (b) Fayol's Principles of Management.
- (c) Taylor's Scientific Management-Principles & Techniques.

#### **UNIT-III BUSINESS ENVIRONMENT**

- (a) Business Environment - Meaning & Importance.
- (b) Dimensions of Business Environment-Political, Economic, Social Legal and Technological.
- (c) Economic Environment in India, Impact of Govt. Policy changes or business & industry with Reference to Liberalization, Privatization and Globalization.

#### **UNIT-IV PLANNING**

- (a) Meaning, Features, Process, Importance & Limitations.
- (b) Goals, Objectives, Policy, Procedures, Strategy Methods, Rules, Budgets and Programmes-meaning and distinction.

## **Part-II BUSINESS FINANCE AND MARKETING**

**UNIT-V BUSINESS FINANCE**

- (a) Meaning and Objectives of Finance Functions, Profit Maximization vs Wealth Maximization.
- (b) Financial Planning: Meaning & Importance
- (c) Capital Structure: Meaning & Factors
- (d) Working Capital: Meaning, Importance, Types & Factors affecting its requirements.

**UNIT-VI FINANCIAL MARKETS**

- (a) Concept of Financial Market: Money Market-nature, instruments.
- (b) Capital Market: Nature, and Types-Primary and Secondary Market.
- (c) Distinction between Capital Market and Money Markets.
- (d) Stock Exchange; Meaning, Functions, NSEI, OCTEI, Training Procedure.
- (e) Securities and Exchange Board of India (SEBI): Objectives and Functions.

**SEMESTER - II**

**Time = 3 Hours**

**Theory : 65 Marks  
IA/CCE : 25 Marks  
Total : 90 Marks**

**STRUCTURE OF QUESTION PAPER**

- 1. The Question Paper will cover whole of the syllabus prescribed for Semester-II.
- 2. All Questions will be compulsory.
- 3. 13 Questions will be set in the Question Paper.
- 4. All Units of the syllabus should be given adequate representation in the Question Paper.
- 5. Question paper will have 3 Sections A, B & C.

**SECTION A**

Question No.1 will consist of 9 sub parts of 1 mark each. It will cover whole of syllabus prescribed for Semester-II. Answer of each question should be given in 1-15 words.

**SECTION B**

This section will cover Part I of the syllabus.

2 questions of 3 marks each will be set. Answer of each question should be given in 8-10 lines.

2 questions of 4 marks each will be set. Answer of each question should be given in 10-15 lines.

2 questions of 7 marks with internal choice will be set. Answer limit for each question should be 3-4 pages.

## **SECTION C**

This section will cover Part II of the syllabus.

2 questions of 3 marks each will be set. Answer of each question should be given in 8-10 lines.

2 questions of 4 marks each will be set. Answer of each question should be given in 10-15 lines.

2 questions of 7 marks with internal choice will be set. Answer limit for each question should be 3-4 pages.

## **SYLLABUS**

### **PART-I**

#### **PRINCIPLES AND FUNCTIONS OF MANAGEMENT**

##### **UNIT-I ORGANISATION**

- (a) Meaning and Importance
- (b) Process of Organizing
- (c) Types of Organization: Formal, Informal, Line Organization, Line & staff and, Functional Organization.
- (d) Delegation: Meaning, Elements and Importance, Barriers in the way of delegation, Step to make delegation effective.
- (e) Decentralization: Meaning and Importance
- (f) Difference between Centralization and Decentralization.
- (g) Difference between Delegation and Decentralization.

##### **UNIT-II STAFFING**

- (a) Staffing: Meaning, Need and Importance
- (b) Steps in Staffing Process:
  - (i) Recruitment: Meaning and Sources.
  - (ii) Selection-Meaning and Process.
  - (iii) Training & Development-Meaning, Need, Types and Methods.
- (c) Methods of Wage Payment: Time rate & Price rate.

(d) Types of Compensation and Incentives: Monetary & Non Monetary.

### **UNIT-III DIRECTING**

(a) Directing-Meaning and Importance.

(b) Elements of Direction:

(i) Supervision: Meaning and Importance

(ii) Motivation: Meaning and Importance, Maslow's hierarchy of needs: Financial & Non-Financial Incentives.

(iii) Leadership: Meaning, Importance, Quality of a good leader.

(iv) Communication: Meaning and Importance, Types of communication and Barriers to Effective Communication.

### **UNIT-IV COORDINATION**

Coordination: Meaning, Nature & Importance.

### **UNIT-V CONTROLLING**

(a) Controlling: Meaning and Importance.

(b) Relationship between Planning and Controlling.

(c) Steps in process of Control.

## **Part-II**

## **BUSINESS FINANCE AND MARKETING**

### **UNIT-VI MARKETING**

(a) Marketing: Meaning, Function & Role.

(b) Distinction between Marketing & Selling.

(c) Marketing Mix: Concept & Elements-

(i) Product: Nature, Classification, Branding, Labeling and Packaging.

(ii) Physical Distribution: Meaning, Role, Channels of Distribution:-  
Meaning, Types, Factors Determining choice of channel.

(iii) Promotion: Meaning and Role, Promotion Mix, Role of Advertising and Personal Selling, Objectives of Advertising.

(iv) Price: Factors influencing Pricing.

### **UNIT-VII CONSUMER PROTECTION**

(a) Importance of Consumer Protection,

(b) Consumer Rights.

(c) Consumer Responsibilities.

- (d) Ways and Means of Consumer protection: Consumer awareness and legal redressal with special reference to Consumer Protection Act 1986.
- (e) Role of Consumer Organization and NGO's.

#### **UNIT-VIII ENTREPRENEURSHIP DEVELOPMENT**

- (a) Entrepreneurship: Concept, Characteristics, Needs and Functions.
- (b) Process of Entrepreneurship Development.
- (c) Entrepreneurial Values, Attitudes and Motivation: Meaning & Concept.

### **54. ACCOUNTANCY-II**

**(COMMERCE GROUP)**

**PAPER - II**

**SEMESTER-I**

**Time = 2½ Hours**

**Theory : 40 Marks**

**IA/CCE : 20 Marks**

**Total : 60 Marks**

#### **STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. There is no length limit for numerical questions.
6. Question No. 1 will consist of 8 sub parts of one mark each. Answer of each question should be given in 1-15 words.
7. Question No. 2 to 5 (of which two will be of numerical nature and other two of theoretical nature) will carry 2 marks each. Answer of each theoretical question should be given in 10-15 lines.
8. Question No. 6 to 9 (of which two will be of numerical nature and other two of theoretical nature) will carry 3 marks each. Answer of each theoretical question should be given in 1-2pages.
9. Question No. 10 and 11 will carry 6 marks each. Question No. 10 will be of numerical nature with internal choice while in question No. 11 their will be a choice between numerical and theoretical question. Answer of this theoretical question must be between 3-5 pages.



10. The Use of non-programmable simple calculator is allowed.

## **SYLLABUS**

### **UNIT 1: ACCOUNTING FOR NOT-FOR-PROFIT ORGANIZATION.**

1. Meaning, Basic Concepts
2. Receipts and Payments : Meaning and Concept of Fund Based and Non Fund Based Accounting
3. Preparation of Income and Expenditure Account and Balance Sheet from Receipt and Payment Account with additional information.

### **UNIT 2 : ACCOUNTING FOR PARTNERSHIP**

1. Nature of Partnership Firm, Partnership Deed (Meaning and Importance)
2. Final Account of Partnership: Fixed v/s Fluctuating Capital, Division of Profit among Partners (excluding guarantee) and past adjustments. Preparation of Profit and Loss Appropriation Account

### **UNIT 3: RECONSTITUTION OF PARTNERSHIP**

1. Change in Profit Sharing Ratio among the existing Partners- Sacrificing Ratio and Gaining Ratio
2. Accounting for Revaluation of Assets and Liabilities and Distribution of Reserves and Accumulated Profits
3. Goodwill: Meaning, Nature, Factors affecting and Methods of Valuation. Average profits, Super profits and Capitalization Methods
4. Admission of a Partner:- Effect of Admission of Partner, Change in Profit Sharing Ratio, Accounting Treatment of Goodwill (as per accounting standard 10). Revaluation of Assets and Liabilities, Reserves (Accumulated profits) and Adjustment of capitals
5. Retirement/Death of a Partner: Change in Profit Sharing Ratio, Accounting Treatment of Goodwill, Revaluation of Assets and Liabilities, Treatment of Accumulated, Profits (Reserve), Adjustment of continuing P.capitals, Payment to Retiring Partner/ Deceased Partners.

### **UNIT 4 : DISSOLUTION OF PARTNERSHIP FIRM**

Meaning and Various Modes of Dissolution of Partnership Firm, settlement of Accounts. Preparation of realization Account and related Accounts (excluding Piece Meal distribution, Sale to a Company and Insolvency of a Partner).

## **SEMESTER-II**

**Time = 3 Hours**

**Theory : 45 Marks**  
**Project Work/Practical : 25 Marks**  
**IA/CCE : 20 Marks**  
**Total : 90 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-II.
2. There are 2 Parts of syllabus of Accountancy – II in this semester. Students may choose only one Part from Part I and Part II.
3. All Questions will be compulsory.
4. 12 Questions will be set in the Question Paper.
5. All Units of the syllabus should be given adequate representation in the Question Paper.
6. There is no length limit for numerical questions.
7. Question No. 1 will consist of 7 sub parts of one mark each. Answer of each question should be given in 1-15 words.
8. Question No. 2 to 5 (of which two will be of numerical nature and other two of theoretical nature) will carry 2 marks each. Answer of each theoretical question should be given in 10-15 lines.
9. Question No. 6 to 9 (of which two will be of numerical nature and other two of theoretical nature) will carry 3 marks each. Answer of each theoretical question should be given in 1-2pages.
10. Question No. 10 to 12 will carry 6 marks each. Question No. 10 will be of numerical nature with internal choice while in Question No. 11& 12 their will be a choice between numerical and theoretical questions. Answer of each theoretical question must be between 3-5 pages.
11. The Use of non-programmable simple calculator is allowed.

### **SYLLABUS**

**Note : Students may choose only one Part from Part I and Part II.**

#### **PART -I**

#### **UNIT-I:- ACCOUNTING FOR SHARE CAPITAL AND DEBENTURES**

1. Share Capital:- Meaning, Nature Types

2. Accounting for Share Capital:- Issue and Allotment of Equity and Preferred Shares, Over Subscription and under Subscription, Issue at Par Securities Premium and Discount, Calls in Advance, Calls in Arrears, Issue of Shares for Consideration other than cash.
3. Forfeiture of Shares:- Accounting treatment Reissue of Forfeited Shares.
4. Presentation of Share Capital in Company's Balance Sheet
5. Issue of Debentures:- Meaning, Types of Debentures, Issue at Par, Premium and Discount, Issue of Debentures for Consideration other than cash, Debenture Issues as Collateral Security.
6. Redemption of Debentures:- Out of proceeds of fresh issue, Accumulated Profits and Sinking Fund.

### **UNIT 2:- ANALYSIS OF FINANCIAL STATEMENTS**

1. Financial Statement of Company:- Balance Sheet of a Company in the prescribed form with major heading only (schedule VI)
2. Financial Analysis:- Meaning, Significance and Purpose, Limitations.
3. Tools for Financial Analysis:- Comparative statements, Common Size Statement and Trend Analysis.
4. Accounting Ratio:- Meaning and Objectives Types.
5. Liquidity Ratio :- Current Ratio, Liquidity Ratio
6. Solvency Ratio :- Debt to Equity, Total Assets to Debt, Proprietary Ratio.
7. Activity Ratio: Inventory Turn over, Debtors Turnover, Creditors Turnover, Working Capital Turnover, Fixed Assets Turnover, Currents Assets Turnover ratio.
8. Profitability Ratio:- Gross Profit, Operating Profit ratio, Net Profit Ratio, Operating Ratio, Return on Investment, Earning Per Share, Dividend Per Share, Price Earning Ratio.

### **UNIT 3:- STATEMENT OF CHANGES IN FINANCIAL POSITION**

Cash Flow Statement :- Meaning and Objectives, Preparation, Adjustments relating to Depreciation, Dividend, Tax , Purchase and Sale of non current assets (as per revised standard issued by ICAI)

**OR**

## **PART-II COMPUTERISED ACCOUNTING SYSTEM**

### **UNIT 4:- OVERVIEW OF COMPUTERIZED ACCOUNTING SYSTEM**

1. Concepts and Types of Computerized Accounting System(CAS)
2. Features of a Computerized Accounting System

3. Structure of a Computerized Accounting System

#### **UNIT 5:-USING COMPUTERIZED ACCOUNTING SYSTEM**

1. Steps in installation of CAS, preparation of chart of accounts, codification and hierarchy of account heads.
2. Data entry, Data Validation and Data Verification.
3. Adjustment entries, preparation of financial statements, Closing Entries and Opening Entries.
4. Security of CAS and security features generally available in CAS (Student are expected to understand and practice the entire accounting process using an accounting package).

#### **UNIT 6:- ACCOUNTING USING DATA BASE MANAGEMENT SYSTEM(DBMS)**

1. Concepts of DBMS.
2. Objective in DBMS: Tables, Queries, Forms,Reports.
3. Creating data Tables for Accounting
4. Using queries, forms and reports for generating accounting information, Applications of DBMS in generating accounting information such as shareholders records, sale reports, customers profile, suppliers profile payroll, employees' profile and petty cash register.

#### **UNIT 7:-ACCOUNTING APPLICATION OF ELECTRONIC SPREAD SHEET**

1. Concept of an Electric Spread Sheet (ES).
2. Features offered by Electronic Spread Sheet.
3. Applications of Electronic Spread Sheet in generating accounting information, preparing Depreciation Schedule, Loan Repayment Schedule, Payroll Accounting and other such applications.

### **PROJECT WORK/PRACTICALS**

#### **SEMESTER-II**

#### **A. Project work for those students who choose Part-I of the semester syllabus.**

**Time Allowed: 1 ½ Hours.**

**Max. Marks: 25**

1. The syllabus of Project Work is same as prescribed for the theory of both semesters.
2. Project Note Book will consist of at least one comprehensive Project and some short answer questions based on the prescribed syllabus.
3. Division of Marks:  
Project Note Book: 5 Marks  
Three questions (with internal choice) 15 Marks (5 marks each)

Viva Voce

5 Marks

**B. Practical for those students who choose part-II of the semester syllabus**  
**Time Allowed: 1 ½ Hours. Max. Marks: 25**

1. The syllabus of Practical is same as prescribed for the theory of the semester.
2. Practical Note Book will consist of the entire practical performed in the computer laboratory based on the prescribed syllabus.

3. Division of Marks:

Practical Note Book:	5 Marks
Perform two practical out of the given four	14 Marks (7 marks each)
Viva Voce	6 Marks

**55. BUSINESS ECONOMICS & QUANTITATIVE  
METHODS - II  
(COMMERCE GROUP)  
PAPER - III  
SEMESTER - I**

**Time = 2½ Hours**

**Theory : 40 Marks  
IA/CCE : 20 Marks  
Total : 60 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. There is no length limit for numerical questions.
6. Question paper will have 3 Sections A, B & C.

**SECTION A**

Question No.1 will consist of 8 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-I. Answer of each question should be given in 1-15 words.

**SECTION B**

This section will cover Part I of the syllabus.

2 questions (1 question theoretical and 1 question numerical) of 2 marks each will be set. Answer of theoretical question should be given in 8-10 lines.

2 questions (1 question theoretical and 1 question numerical) of 3 marks each will be set. Answer of theoretical question should be given in 10-15 lines.

1 question (numerical) of 6 marks with internal choice will be set.

## **SECTION C**

This section will cover Part II of the syllabus.

2 questions (1 question theoretical and 1 question numerical) of 2 marks each will be set. Answer of theoretical question should be given in 8-10 lines.

2 questions (1 question theoretical and 1 question numerical) of 3 marks each will be set. Answer of theoretical question should be given in 10-15 lines.

1 question (theoretical) of 6 marks with internal choice will be set. Answer limit should be two to three pages.

## **SYLLABUS**

### **Part-I**

### **BUSINESS STATISTICS**

#### **UNIT -1. MEASURES OF CENTRAL TENDENCY**

Arithmetic Mean (Simple and weighted)

Median and Mode

#### **UNIT -2. MEASURES OF DISPERSION**

(Range, Quartile, Decile, Percentile and Quartile, Deviation)

### **Part-II**

### **INTRODUCTORY MACRO ECONOMICS**

#### **UNIT -3 NATIONAL INCOME AND RELATED AGGREGATES.**

Basic Concepts and Measurement of National Income.

1. Macro Economics-Meaning, Circular Flow of Income, Concepts of GDP, GNP, NDP, NNP, (At Market Price and Factor Cost) National Disposable Income (Gross and Net) Private Income, Personal Income and Personal Disposable Income.
2. Measurement of National Income-Value Added Method, Income Method and Expenditure Method.

#### **UNIT -4 DETERMINATION OF INCOME AND EMPLOYMENT.**

1. Aggregate Demand, Aggregate Supply and their Components.
2. Propensity to Consume and Propensity to Save (Average and Marginal)
3. Meaning of Involuntary Unemployment and Full Employment.

4. Determination of Income and Employment-Two Sector Model.

## **SEMESTER - II**

**Time = 3 Hours**

**Theory : 65 Marks**

**IA/CCE : 25 Marks**

**Total : 90 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-II.
2. All Questions will be compulsory.
3. 13 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. There is no length limit for numerical questions.
6. Question paper will have 3 Sections A, B & C.

### **SECTION A**

Question No.1 will consist of 9 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-II. Answer of each question should be given in 1-15 words.

### **SECTION B**

This section will cover Part I of the syllabus.

2 questions (1 question theoretical and 1 question numerical) of 3 marks each will be set. Answer of theoretical question should be given in 10-15 lines.

2 questions (1 question theoretical and 1 question numerical) of 4 marks each will be set. Answer of theoretical question should be given in 15-20 lines.

2 questions (numerical) of 7 marks with internal choice will be set.

### **SECTION C**

This section will cover Part II of the syllabus.

2 questions (1 question theoretical and 1 question numerical) of 3 marks each will be set. Answer of theoretical question should be given in 10-15 lines.

2 questions (1 questions theoretical and 1 question numerical) of 4 marks each will be set. Answer of theoretical question should be given in 15-20 lines.

2 questions (theoretical) of 7 marks with internal choice will be set. Answer limit for each theoretical question should be 3-4 pages.

# **SYLLABUS**

## **Part-I**

### **BUSINESS STATISTICS**

#### **UNIT -1. MEASURES OF DISPERSION**

1. Mean Deviation, Standard Deviation and Coefficient of Variation.

#### **UNIT -2. MEASURES OF SKEWNESS**

- (i) Meaning of Measures of Skewness
- (ii) Difference between Dispersion & Skewness.
- (iii) Measures of Skewness.
  - a) Absolute measures
  - b) Relative Measures & Coefficient of Skewness
    - (i) Bowley's Coefficient of Skewness
    - (ii) Kelly's Coefficient of Skewness
    - (iii) Karl Pearson's Coefficient of Skewness

#### **UNIT -3. INDEX NUMBER**

- (i) Meaning, Features, Uses and Problems of Construction for Index Number.
- (ii) Methods of Construction of Index Number, Cost of Living Index Number, Choice of base for Computing Index Number Base Shifting.

#### **UNIT -4. CORRELATION**

- (i) Meaning, Significance, Causes and Effect Relationship. Types of Co-relation.
- (ii) Methods of Co relation:
  - a) Scattered Diagram,
  - b) Graphic Method
  - c) Karl Pearson's Coefficient of Correlation,
  - d) Spearman's Rank Correlation Coefficient
  - e) Concurrent Deviation Method.
- (iii) Probable error, Standard error and Coefficient of Determination.

#### **UNIT-5. REGRESSION ANALYSIS**

- (i) Meaning, Uses of Regression Analysis, Relationship between Correlation and Regression analysis
- (ii) Regression Lines
- (iii) Preparation of Regression quotient



- (iv) Standard errors of estimation and Limitation of Regression analysis.

**PART-II**  
**INTRODUCTORY MACROECONOMICS**

**UNIT-6 DETERMINATION OF INCOME AND EMPLOYMENT**

- (i) Concept of Investment Multiplier and its working.
- (ii) Problems of Excess and Deficient Demand.
- (iii) Measures to correct Excess & Deficient Demand, Availability of Credit, Change in Govt. spending.

**UNIT-7 MONEY AND BANKING**

- (i) Money- Meaning, Evolution and Functions.
- (ii) Central Bank- Meaning and Functions
- (iii) Commercial Banks- Meaning and Functions
- (iv) Recent Significant Reforms and Issue in Indian Banking System, Privatization and Modernization.

**Unit-8 GOVERNMENT BUDGET AND THE ECONOMY**

- (i) Government Budget- Meaning and its Components, Objectives of Government Budget. Classification of Receipts- Revenue and Capital
- (ii) Classification of Expenditure-Revenue and Capital, Plan and Non-Plan and Developmental and Non-Developmental.
- (iii) Balanced Budget-Surplus and Deficit Budget; Meaning and Implications.
- (iv) Revenue Deficit, Fiscal and Primary Deficit; Meaning and Implications; Measures to correct different Deficits.

**Unit-9 BALANCE OF TRADE AND BALANCE OF PAYMENTS**

- (i) Foreign Exchange Rate- Meaning (Flexible and Fixed), Merits and Demerits, Determination through Demand and Supply.
- (ii) Balance of Payment Accounts-Meaning and Components, A Brief Analysis about recent Exchange Rate issues.

**56. FUNDAMENTAL OF E-BUSINESS**

**(COMMERCE GROUP)**

**PAPER - IV**

**SEMESTER - I**

**Time = 2½ Hours**

**Theory : 40 Marks**

**IA/CCE : 20 Marks**

**Total : 60 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-I.
2. All Questions will be compulsory.
3. 11 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question paper will have 4 Sections A, B, C & D.

### **SECTION A**

Question No.1 will consist of 5 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-I. Answer of each question should be given in 1-15 words.

### **SECTION B**

Four questions (i.e. two from Part 1 and two from Part II) of 2 marks each will be set. The answer of each of these questions should be given in 8-10 Lines.

### **SECTION C**

Three questions (i.e. one from Part 1 and two from Part II) of 3 marks each will be set. The answer of these questions should be given in 10-15 lines of the answer book.

### **SECTION D**

Three questions (one from Part 1 and two from Part II) each with internal choice of 6 marks each will be set. The answer of each of these questions should be given in 2-3 pages of the answer book.

## **SYLLABUS**

### **Rationale of the Course :**

Information technology has great influence on all aspects of our life. All our work places and the living environments are being computerized. In order to prepare students to work in these environments, it is essential that they are exposed to various applications of information technology, One of the important applications of IT is e-business. The term applies to the use of computer network to search and retrieve information in support of human and corporate decision making. It is a modern business methodology that addresses the needs of business organizations, merchants and consumers to cut cost while improving the quality of goods and services and increasing the speed of service- delivery. This exposure will enable the student to enter the world with confidence Live in these environments in a bannonian way and contribute to the productivity.

**(THEORY)**  
**PART - I**

**UNIT 1: FUNDAMENTAL OF INFORMATION TECHNOLOGY**

1. Concepts and Scope of IT
2. Elements of Computer System : Computer hardware and software. Computer Organization.
3. CPU memory input devices, Output Devices, Storage Devices, and Communication Devices.

**PART-II**  
**CONCEPTUAL FRAMEWORK OF E-BUISNESS**

**UNIT 2: INTRODUCTION TO ELECTRONIC COMMERCE**

1. Meaning, Features, Functions and Benefit of E-commerce. E- Commerce practice vs tradition practice, Scope and Basic Modals of E-Commerce, Limitations of E-Commerce precautions for secure E-commerce, proxy services.
2. Types of E-commerce, meaning of B2C, B2B, C2C & P2P3. E- Commerce in India. Status of E-commerce in India, problems and opportunity in E-Commerce in India future of E-commerce: legal issues involved in E-Commerce payment system debit card, prepaid payment system, electronic cash digit cash net cash, cyber, cash, smart cards.
3. E-Payments - Transaction through internet, requirements of e-payment system, post paid payment system, credit card solutions, cyber cash internal cheques, instant paid payment system, debit card, prepaid payment system electronic cash, digi cash, net cash, cyber cash, smart cards.

**SEMESTER - II**

**Time = 3 Hours**

**Theory : 45 Marks**  
**Practical : 25 Marks**  
**IA/CCE : 20 Marks**  
**Total : 90 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the syllabus prescribed for Semester-II.
2. All Questions will be compulsory.
3. 12 Questions will be set in the Question Paper.
4. All Units of the syllabus should be given adequate representation in the Question Paper.
5. Question paper will have 4 Sections A, B, C & D.

## **SECTION A**

Question No.1 will consist of 8 sub parts of 1 mark each. It will cover whole of the syllabus prescribed for Semester-II. Answer of each question should be given in 1-15 words.

## **SECTION B**

Five questions (i.e. two from Part 1 and three from Part II) of 2 marks each will be set. The answer of each question should be given in 8-10 Lines.

## **SECTION C**

Three questions (i.e. one from Part 1 and two from Part II) of 3 marks each will be set. The answer of each question should be given in 10-15 lines of the answer book.

## **SECTION D**

Three questions (one from Part 1 and two from Part II) each with internal choice of 6 marks each will be set. The answer of each question should be given in 2-3 pages of the answer book.

## **SYLLABUS (THEORY)** **PART -I**

### **UNIT 1: FUNDAMENTALS OF INFORMATION TECHNOLOGY**

1. Multimedia device
2. Introduction to operating system

#### **Introduction to internet**

Concept of internet, use of internet, requirements of internet, internet domain, internet server, establishing connectivity on the internet, Types of internet providers, Constituent of internet protocol, browsing the internet tools and service of internet, procedure of opening e-mail account on internet.

## **PART -II** **CONCEPTUAL FRAMEWORK OF E-BUSINESS**

### **UNIT 2: E-SECURITY**

Areas of Internet Security, Security Threats, Security Breach Avoidance, Detection and Recovery, Confidentiality and Integrity, Electronic Signature, Access Control, Authentication Precaution for Secure e-commerce.

### **UNIT 3: B-BANKING**

Meaning Importance and Types of E-Banking services. Traditional vs E-Banking, process of E-Banking Advantages and Disadvantages of E-Banking, Status of E-Banking in India.

#### **UNIT 4 : E- TRADING**

Meaning and importance of E- Trading, Traditional Trading vs E-Trading, Operational Aspects of E- Trading, Advantage of E- Trading status of e-trading in India.

#### **UNIT 5: E-MARKETING**

Concept of E- Marketing, 4Ps of e- marketing, traditional marketing vs E-Marketing, advantage of E-Marketing, status of E-Marketing in India.

### **SYLLABUS (PRACTICAL)**

**Time :1 hour**

**MM 25**

#### **STRUCTURE OF PRACTICAL QUESTION PAPER**

1. Total five questions (i.e. two from part-I and three from part-2) of 5 marks each will be set out of list prescribed for practical. The students are required to perform 3 questions selecting at least one from each part.

#### **LIST OF PRACTICALS**

##### **PART -1**

1. Internet and its application.
2. Log in to internet.
3. Navigation for seeking information
4. Down loading information from internet.

##### **PART -II**

5. Sending and Receiving e-mail
  - (a) Creating e-mail account.
  - (b) Creating a message.
  - (c) Creating an address book.
  - (d) Attaching a file with e- mail.
  - (e) Receiving a message.
  - (f) Deleting a message.
6. Purchasing through the net.
7. Online Banking- Operating an ATM.

## **57. AGRICULTURE SEMESTER-I**

**Time = 2:30 Hours**

**Theory : 55 Marks  
IA/CCE : 25 Marks  
Total : 80 Marks**

### **STRUCTURE OF QUESTION PAPER**

1. There will be one theory paper comprising of 25 questions. All questions will be compulsory.
2. Marks for each question are indicated against it.
3. Question Nos. 1-10 are objective type questions carrying 1 mark each. Answer to each question will be in one line or few words only.  $1 \times 10 = 10$
4. Question Nos. 11-16 are very short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.  $2 \times 6 = 12$
5. Question Nos. 17-22 are short answer type questions carrying 3 marks each. Answer to each question will be in 40-50 words.  $3 \times 6 = 18$
6. Question Nos. 23-25 are long answer type questions carrying 5 marks each. Answer to each question will be in 80-100 words.  $5 \times 3 = 15$
7. In question Nos. 23-25 there will be 100% internal choice.
8. There will be no objective type questions such as yes/no, tick/cross, fill in the blanks, multiple choice, true/false etc.
9. The question paper should be strictly from the prescribed syllabus subject to the above mentioned guidelines.
10. "Candidates will be provided with one answer book of 32 pages only. No extra/continuation sheet will be provided.

### **SYLLABUS THEORY**

#### **Unit-I: Agriculture Biology Botany**

**30 Marks**

1. Heredity-Mendel's Laws of Heredity.
2. Anatomy-Internal structure of dicot and monocot stem, root and leaf.
3. Simple, compound and special types of inflorescence.
4. Types of pollination and agencies responsible for pollination.
5. Fertilization and development of seed and fruit.
6. Types of fruit and seed dispersal.
7. Study of general characters and economic Importance of following flowering plants with reference to types mentioned in bracket.
  - (a) Cruciferae (Brassica, Raphanus)
  - (b) Malvaceae (Gossypium, Okra)

- (c) Rutaceae (Citrus, Murraya)
  - (d) Papilionaceae (lathyrus, pisum)
  - (e) Rosaceae ( Rose, Prunus)
  - (f) Solanaceae (Petunia, Solanum)
  - (g) Cucurbitaceae (luffa, cucurbita)
  - (h) Gramineae (Avena, Triticum)
8. Brief account of photosynthesis, respiration and transpiration.

**Unit-II: Agriculture Biology-Zoology 25 Marks.**

1. Introduction to Zoology, Characteristics of living organisms. Elementary knowledge about RNA, DNA. Enzymes and hormones.
2. Zoological nomenclature and principles of classification, Origin of life, Evidence and theories of evolution.
3. General characteristics of class Mammalia Elementary functional anatomy of rabbit with special reference to digestive, respiratory, circulatory and urinogenital systems.
4. Insects- their growth development and anatomy with grass hopper as a type.
5. Animal of economic importance to agriculture.

**AGRICULTURE BIOLOGY  
(PRACTICAL)  
Part-A**

1. Anatomical study of dicot and monocot stem root and leaf form permanent slides.
2. Identification and study of specimens of different types of inflorescence.
3. Identification and study of specimens of different types of fruits.
4. Identification botanical description of plants/plant parts of the families mentioned in the theory
5. Experiments related to photosynthesis, respiration and transpiration.

**Part-B**

1. Economic importance of farm animals.
2. Histology study of prepared slides of compound tissues and organs.
3. Study of mammalian eye and heart from models.
4. Study of various systems of rabbit from models/charts.
5. Identification of major insect pests and diseases of important farm crops.

**Note :-** Practical's will be conducted as per given syllabus but no Board examination will be conducted at the end of Semester-I.

## SEMESTER-II

Time- 3 hrs.

Theory : 65 Marks  
Practical Paper : 25 Marks  
Internal Assessment/CCE : 30 Marks  
Total : 120 Marks

### STRUCTURE OF QUESTION PAPER

1. There will be one Theory Paper comparing of 30 questions. All questions will compulsory.
2. Marks for each question are indicates against it.
3. Question No. from 1 to 12 are objective type questions carrying 1 mark each. Answer to each question should be in about one line or few words.  
 $1 \times 12 = 12$
4. Question No. from 13 to 19 are very short answers type questions carrying 2 marks each. Answer to each question should be in about 20 - 30 words.  
 $2 \times 7 = 14$
5. Question No. from 20 to 27 are short answers type questions carrying 3 marks each. Answer to each question should be in about 40-50 words.  
 $3 \times 8 = 24$
6. Question No. from 28 to 30 will be of long answers type questions carrying 5 marks each. Answer to each question should be in about 80-100 words.  
 $5 \times 3 = 15$
7. Question No. from 28 to 30 there will be 100% internal choice.
8. There will be no objective type questions such as Yes/No, tick/Cross, fill in the blanks multiple choice, true/false etc.
9. The question paper should be strictly from the prescribed syllabus subject to the above mentioned guidelines.
10. Candidates will be provided with the answer book a/32 pages only. No extra/continuation sheet will be provided.

### SYLLABUS (THEORY)

**Unit-1: Soil and Crop Management Practices**

**35 marks**

Soil as a growth medium Essential elements, organic manures, chemical fertilizers and bio fertilizers, Reclamation of alkaline and saline soils erosion; causes



and remedial measures. Crop management practices : selection of varieties, seedbed preparation seed rate time and method of sowing, manuring and fertilization, irrigation, weed management, harvesting, threshing and marketing of wheat, rice, maize, cotton, sugarcane, sunflower, mustard, gram, moong, jawar, barseem, peas, tomato and brinjal. Cultivation of important fruit crops -ber, guava and grapes. Major insect, pests and diseases, their symptoms and control measures of above crops. Fruit preservation and post harvest technology.

**Unit-2 Livestock Farming and Poultry Production:- 30 marks**

Livestock farming, Role of livestock and poultry in agriculture, Breeds of diary animals and poultry, Commercial dairy farming and poultry production Management of newly born calf, pregnant and milch animals, artificial insemination, pregnancy diagnosis and detection of heart disease in dairy animals. Cross breeding. Dairy animal and poultry diseases:- foot and mouth, H.S. mastitis black quarter, rani kheit and bird flu. Common feeds of dairy animals and importance of meat and egg in human foods.

**PRACTICAL**

**One Practical Paper**

**Time: 3 Hrs.**

**Marks: 25**

**STRUCTURE OF QUESTION PAPER**

1. The question paper will be set up by the examiner on the spot.
2. A group of student for the practical should not be more than 20 students.
3. There will be two sections in the question paper.

Soil and Crop Management Practices including Livestock Farming and Poultry Production.

1. Note book and viva-voce 3 + 2 = 5 marks
2. 4 questions of 5 marks each 20 marks

The examiner must set the question according to the facilities available at the exam centre.

**PRACTICAL SYLLABUS**

**TOTAL MARKS-25**

Soil and Crop Management Practices including Livestock Farming and Poultry Production.

1. Note book and viva voce
2. 4 question of 5 marks each

The examiner must set the cluestion according. to the facillites available exam centre.

## **LIST OF PRACTICALS**

1. Seedbed preparation and sowing of major field crops.
2. Method of weed control.
3. Methods of irrigation.
4. Types of fertilizers and their application
5. FYM and its preparation.
6. Identification of major pests and diseases of different crops.
7. Practices in training and pruning of horticultural plants, their fertilization irrigation.
8. Livestock production
9. Poultry farming
10. Judging of dairy animals.
11. Fruit preservation
12. Maintenance and utility of farm records.

## **SYLLABUS (PRACTICAL)**

**Note :** Practical examination will be conducted by the Board at the end of Semester II from the 100% Practical Syllabus (i.e Semester-I, Semester-II )