

**PUNJAB SCHOOL EDUCATION BOARD
SYLLABI
OF
ACADEMIC STREAM
CLASS - XI**



ACADEMIC YEAR 2011-12

**VIDYA BHAWAN, PHASE-VIII SAHIBZADA AJIT
SINGH NAGAR (MOHALI)**

**CLASS - XI
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-I) 15 marks
(Grammar 8 marks, I Am The People 4 marks, Stories, Plays & Tales of Adventure 3 marks)
- 2) Comprehension passage (I AM THE PEOPLE) 10 marks
- 3) Translation from English into Vernacular. (I Am The People) 3 marks

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

A paragraph to be developed through given situation/outline.

Part-B

- 4 a) Short answer type questions from Stories, Plays & Tales of Adventure (3 questions out of 5 questions) 6 marks
- b) Summary of a poem (1 out of 2 questions) 4 marks

Part-C

- 5 a) Essay type question (one out of two) from Stories, Plays & Tales of Adventure in about 100 words. 4 marks
- b) Essay type question (one out of two) from I Am The People in about 100 words. 6 marks

Part - D

6. Essay writing (Simple/descriptive/Narrative) (one out of three) 7 marks

SEMESTER-II

Time-3 hrs
Marks

Theory : 85

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

Marks

STRUCTURE OF THE QUESTION PAPER

Part-A

- 1) Do all questions (15 objective type questions based on total Syllabus of Sem. II) 15 marks
(Grammar 8 marks, 1 Am The People 4 marks, Stories, Plays & Tales of Adventure 3 marks).

- 2) Comprehension passage (I AM THE PEOPLE). 12 marks

- 3) Translation from English into Vernacular. (I Am The People) 5 marks

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

A paragraph to be developed through given situation/outline.

Part-B

- 4a) Short answer type questions from Stories, Plays & Tales of Adventure (5 questions out of seven questions) 15marks

- b) Summary of a poem (1 out of 2 questions) 5 marks

Part-C

- 5 a) Essay type question (one out of two) from Stories, Plays & Tales of Adventure in about 125 words. 7 marks

- b) Essay type question (one out of two) from I Am The People in about 125 words. 8 marks

Part-D

- 6a) Paragraph writing with given situation (one out of three) 9 marks

- b) Letter Writing (personal) (one out of two) 9 marks

MARKING SCHEME FOR COMPREHENSION

S.No.	Questions	Sem. I	Sem. II
		M.M. 10	M.M. 12
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.	Short question	1 mark	1 mark
5.	Match the following (two)	2 marks	2 marks

6.	Question on Prefix, suffix (two)	1 mark	2 marks
7.	Fill in the blanks (two)	1 mark	1 mark
8.	Give meanings in simple English (two)	1 mark	2 marks

INSTRUCTIONS FOR OBJECTIVE TYPE QUESTIONS

Objective type question for Semester-I will cover the whole syllabus prescribed for Semester-I and Semester-II Objective type question will cover the whole syllabus prescribed for Semester-II.

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

All sub-questions are compulsory (marks-15)

Grammar: - 8

I Am The People : - 4

Stories, Plays and Tales of Adventure:-3

Q1.a) Do as directed:

- Change the Tenses (2)
- Change the Voice (2)
- Change the Narration (2)
- Common Errors

Or

- Simple Idioms (2)
- b) One line answer question from I Am The People. (4)
- c) One line answer question from Stories, Plays and Tales of Adventure (3)

Pattern of question 1 will be the same for both the Semesters.

SYLLABUS (SEMESTER-I)

Book-1: I AM THE PEOPLE

1. The Portrait of A Lady
I am the People-the Mob
2. The Kite Maker
Success is counted sweetest
3. My Struggle for an Education
4. Dialogue on Civilization
5. Upagupta
6. Paul Julius Reuter

Book-II: Stories, Plays and Tales of Adventure

1. Sparrows

2. The Last Leaf
3. My Brother, My Brother
4. The Other Side
5. My Lost Dollar

i) GRAMMAR

- (a) Tenses
- (b) Voice (simple)
- (c) Reported Speech (simple)
- (d) Simple idioms
- (e) Common errors

ii) COMPOSITION

Simple/descriptive/narrative essay.

SYLLABUS (SEMESTER-II)

Book-I: I Am The People

6. The Appointed Day
The Little Black Boy
7. No Time For Fear
8. Father Has A Bad Night
9. To Sir, With Love
The Eagle
10. Taming the Atom
Snake
11. Hunting Big Game with the Camera
Confessions of a Born Spectator

Book- II: Stories, Plays and Tales of Adventure

6. The Pomegranate Trees
7. The Model Millionaire
8. The Counts Revenge
9. My Ordeal in a Jungle Air Crash
10. Escape Velocity
11. "Don't Die, Graham Don't Die!"

GRAMMAR

- i)** (a) Tenses
- (b) Voice (Simple)
- (c) Reported Speech (Simple)
- (d) Simple Idioms
- (e) Common Errors

COMPOSITION:

- (a) Paragraph writing
- (b) Letter writing (Personal)

2. ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ-I

ਸਮਾਂ : 2¹/₂ ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 55 ਅੰਕ
ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 25 ਅੰਕ
ਕੁੱਲ : 80 ਅੰਕ

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

ਪ੍ਰਸ਼ਨ 1 : ਸਮੈਸਟਰਾਂ ਦੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ ਉੱਤੇ ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲੇ 10 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :

- ਪੰਜਾਬੀ ਲੋਕ-ਸਾਹਿਤ : 4 ਅੰਕ (ਬਹੁ-ਚੋਣ, ਗਲਤ/ਠੀਕ, ਖਾਲੀ ਥਾਂਵਾਂ ਜਾਂ ਇੱਕ-ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)।
1. ਲੋਕ-ਗੀਤ : 2 ਅੰਕ ਦੇ ਦੋ ਪ੍ਰਸ਼ਨ - ਇੱਕ ਪ੍ਰਸ਼ਨ ਨਿਰਧਾਰਿਤ ਪਾਠ-ਸਮਗਰੀ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਇੱਕ ਪ੍ਰਸ਼ਨ ਨਿਰਧਾਰਿਤ ਪਾਠ-ਸਮਗਰੀ ਦੇ ਆਧਾਰ 'ਤੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ।
2. ਲੋਕ-ਕਥਾਵਾਂ : 2 ਅੰਕ ਦੇ ਦੋ ਪ੍ਰਸ਼ਨ - ਇੱਕ ਪ੍ਰਸ਼ਨ ਵਿਭਿੰਨ ਲੋਕ-ਕਥਾਵਾਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਸੰਬੰਧੀ, ਇੱਕ ਪ੍ਰਸ਼ਨ ਪਾਤਰਾਂ ਸੰਬੰਧੀ।
- ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ : 4 ਅੰਕ (ਸਿੱਧਾ ਅਰਥ ਪੁੱਛਣਾ, ਬਹੁ-ਚੋਣ, ਮਿਲਾਨ ਕਰਨ/ਸਮੈਸਟਰ-1 ਵਿੱਚ ਇਹ ਪ੍ਰਸ਼ਨ 'ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ' ਵਿੱਚੋਂ ਹੋਣਗੇ)
- ਮੁਹਾਵਰੇ : 2 ਅੰਕ (1 ਅੰਕ ਵਰਤੋਂ ਸਥਿਤੀ ਦੱਸ ਕੇ ਦੁੱਕਵਾਂ ਮੁਹਾਵਰਾ ਪੁੱਛਣਾ, 1 ਅੰਕ ਮੁਹਾਵਰੇ ਦੇ ਅਰਥ ਨਾਲ ਸੰਬੰਧਿਤ ਬਹੁ-ਚੋਣੀ ਪ੍ਰਸ਼ਨ)
- ਪ੍ਰਸ਼ਨ 2 : ਪੰਜਾਬੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਲੋਕ-ਗੀਤਾਂ ਬਾਰੇ ਦਿੱਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਦੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਕੋਈ ਚਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ, ਦੋ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 3+3=6 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 3 : ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀਆਂ ਵੱਖ-ਵੱਖ ਵੰਨਗੀਆਂ ਦੀਆਂ ਲੋਕ-ਕਥਾਵਾਂ ਵਿੱਚੋਂ ਦੋ ਦੇ ਨਾਂ ਦੇ ਕੇ, ਕਿਸੇ ਇੱਕ ਕਥਾ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 6 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 4 : ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਬੈਂਕ ਅਤੇ ਰੇਲਵੇ ਨਾਲ ਸੰਬੰਧਿਤ ਅੰਗਰੇਜ਼ੀ ਦੇ 5 ਵਾਕ ਦੇ ਕੇ, ਕੋਈ ਤਿੰਨ ਵਾਕਾਂ ਦਾ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 3×1=3 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 5 : ਕਿਸੇ ਮਸਲੇ/ਘਟਨਾ ਬਾਰੇ ਕਿਸੇ ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ ਲਿਖਣ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+4+2=8 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 6 : ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀਆਂ ਵੰਨਗੀਆਂ ਅਨੁਸਾਰ, ਇੱਕ ਇਸ਼ਤਿਹਾਰ ਜਾਂ ਸੱਦਾ-ਪੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। ਦੋ ਵਿਸ਼ੇ ਦਿੱਤੇ ਹੋਣਗੇ। ਇਹਨਾਂ ਵਿੱਚੋਂ ਇੱਕ ਬਾਰੇ ਲਿਖਣਾ ਹੋਵੇਗਾ। 6 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 7 : ਕੋਈ ਤਿੰਨ ਵਿਸ਼ੇ ਦੇ ਕੇ, ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਲਗ-ਪਗ 150 ਸ਼ਬਦਾਂ ਦੀ ਪੈਰਾ ਰਚਨਾ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 8 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 8 : ਪੰਜਾਬੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਕੋਈ ਸੱਤ ਮੁਹਾਵਰੇ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ 4 ਨੂੰ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+2+2+2=8 ਅੰਕ

ਪਾਠ-ਕ੍ਰਮ

ਭਾਗ-ਪਹਿਲਾ

ਅਧਿਆਇ-1 ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ

- | | | |
|--------------------|-------------------------|----------------|
| (i) ਸੁਹਾਗ | (ii) ਘੋੜੀਆਂ | (iii) ਸਿੱਠਣੀਆਂ |
| (iv) ਮਿੱਥ-ਕਥਾਵਾਂ : | ਪ੍ਰਹਿਲਾਦ ਭਗਤ, ਨਲ ਦਮਯੰਤੀ | |
| (v) ਪਰੀ - ਕਥਾਵਾਂ : | ਸਬਜ਼ ਪਰੀ, ਨੀਲ ਕਮਲ | |

ਭਾਗ-ਦੂਜਾ

ਅਧਿਆਇ-2 ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ

- ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ
- ਬੈਂਕ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ
- ਰੇਲਵੇ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ

ਅਧਿਆਇ-3 ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ

- ਪੱਤਰ ਨੰ: 1 ਤੋਂ ਪੱਤਰ ਨੰ: 5
- ਅਭਿਆਸ ਵਿਚਲੇ ਪੱਤਰ 1 ਤੋਂ 6

ਅਧਿਆਇ-4 ਇਸ਼ਤਿਹਾਰ- ਸੱਦਾ ਪੱਤਰ

- ਇਸ਼ਤਿਹਾਰ 1 ਤੋਂ 14 ਤੱਕ
- ਸੱਦਾ ਪੱਤਰ 1 ਤੋਂ 4 ਤੱਕ

ਅਧਿਆਇ-5 ਪੈਰਾ ਰਚਨਾ

- ਪੈਰਾ ਰਚਨਾ 1 ਤੋਂ 10 ਤੱਕ
- ਅਭਿਆਸ ਵਿਚਲੇ ਪੈਰਾ ਰਚਨਾ 1 ਤੋਂ 5 ਤੱਕ

ਅਧਿਆਇ-6 ਮੁਹਾਵਰੇ

- 1 ਤੋਂ 40 ਤੱਕ

ਸਮੇਸਟਰ-II

ਸਮਾਂ : 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 85 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 35 ਅੰਕ

ਕੁੱਲ : 120 ਅੰਕ

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

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

ਪੰਜਾਬੀ ਲੋਕ-ਸਾਹਿਤ : 4 ਅੰਕ (ਬਹੁ-ਚੋਣ, ਗਲਤ/ਠੀਕ, ਖਾਲੀ ਥਾਂਵਾਂ ਜਾਂ ਇੱਕ-ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)।

1. ਲੋਕ-ਗੀਤ : 2 ਅੰਕ ਦੇ ਦੋ ਪ੍ਰਸ਼ਨ - ਇੱਕ ਪ੍ਰਸ਼ਨ ਨਿਰਧਾਰਿਤ ਪਾਠ-ਸਮਗਰੀ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਇੱਕ ਪ੍ਰਸ਼ਨ ਨਿਰਧਾਰਿਤ ਪਾਠ-ਸਮਗਰੀ ਦੇ ਆਧਾਰ 'ਤੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ।

2. ਲੋਕ-ਕਥਾਵਾਂ : 2 ਅੰਕ ਦੇ ਦੋ ਪ੍ਰਸ਼ਨ - ਇੱਕ ਪ੍ਰਸ਼ਨ ਵਿਭਿੰਨ ਲੋਕ-ਕਥਾਵਾਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਸੰਬੰਧੀ, ਇੱਕ ਪ੍ਰਸ਼ਨ ਪਾਤਰਾਂ ਸੰਬੰਧੀ।

ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ : 4 ਅੰਕ (ਸਿੱਧਾ ਅਰਥ ਪੁੱਛਣਾ, ਬਹੁ-ਚੋਣ, ਮਿਲਾਨ ਕਰਨ/ਸਮੈਸਟਰ-1 ਵਿੱਚ ਇਹ ਪ੍ਰਸ਼ਨ 'ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ' ਵਿੱਚੋਂ ਹੋਣਗੇ ਅਤੇ ਸਮੈਸਟਰ-2 ਵਿੱਚ ਇਹ ਪ੍ਰਸ਼ਨ 'ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ' ਵਿੱਚੋਂ ਅਤੇ ਸਮੈਸਟਰ-2 ਵਿੱਚ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ ਵਿੱਚੋਂ ਹੋਣਗੇ।

ਮੁਹਾਵਰੇ : 2 ਅੰਕ (1 ਅੰਕ ਵਰਤੋਂ ਸਥਿਤੀ ਦੱਸ ਕੇ ਢੁੱਕਵਾਂ ਮੁਹਾਵਰਾ ਪੁੱਛਣਾ, 1 ਅੰਕ ਮੁਹਾਵਰੇ ਦੇ ਅਰਥ ਨਾਲ ਸੰਬੰਧਿਤ ਬਹੁ-ਚੋਣੀ ਪ੍ਰਸ਼ਨ)

4+4+2=10 ਅੰਕ

ਪ੍ਰਸ਼ਨ 2 : ਪੰਜਾਬੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਲੋਕ-ਗੀਤਾਂ ਬਾਰੇ ਦਿੱਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਦੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਕੋਈ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ, ਤਿੰਨ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5+5+5=15 ਅੰਕ

ਪ੍ਰਸ਼ਨ 3 : ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀਆਂ ਵੱਖ-ਵੱਖ ਵੰਨਗੀਆਂ ਦੀਆਂ ਲੋਕ-ਕਥਾਵਾਂ ਵਿੱਚੋਂ ਦੋ ਦੇ ਨਾਂ ਦੇ ਕੇ, ਕਿਸੇ ਇੱਕ ਕਥਾ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 10 ਅੰਕ

ਪ੍ਰਸ਼ਨ 4 : ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਡਾਕ ਅਤੇ ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਅੰਗਰੇਜ਼ੀ ਦੇ 7 ਵਾਕ ਦੇ ਕੇ, ਕੋਈ 5 ਵਾਕਾਂ ਦਾ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 1×5=5 ਅੰਕ

ਪ੍ਰਸ਼ਨ 5 : ਕਿਸੇ ਮਸਲੇ/ਘਟਨਾ ਬਾਰੇ ਕਿਸੇ ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ ਲਿਖਣ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+6+2=10 ਅੰਕ

ਪ੍ਰਸ਼ਨ 6 : ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀਆਂ ਵੰਨਗੀਆਂ ਅਨੁਸਾਰ, ਇੱਕ ਇਸ਼ਤਿਹਾਰ ਜਾਂ ਸੱਦਾ-ਪੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। ਦੋ ਵਿਸ਼ੇ ਦਿੱਤੇ ਹੋਣਗੇ। ਇਹਨਾਂ ਵਿੱਚੋਂ ਇੱਕ ਬਾਰੇ ਲਿਖਣਾ ਹੋਵੇਗਾ। 10 ਅੰਕ

ਪ੍ਰਸ਼ਨ 7 : ਕੋਈ ਤਿੰਨ ਵਿਸ਼ੇ ਦੇ ਕੇ, ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਲਗ-ਪਗ 150 ਸ਼ਬਦਾਂ ਦੀ ਪੈਰਾ ਰਚਨਾ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 15 ਅੰਕ

ਪ੍ਰਸ਼ਨ 8 : ਪੰਜਾਬੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਕੋਈ ਅੱਠ ਮੁਹਾਵਰੇ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ 5 ਨੂੰ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+2+2+2+2=10 ਅੰਕ

ਸਮੈਸਟਰ-II

ਪਾਠ-ਕ੍ਰਮ

ਭਾਗ-ਪਹਿਲਾ

ਅਧਿਆਇ-1 ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ

- | | |
|--------------------|----------------------|
| (i) ਟੱਪਾ | (ii) ਬੋਲੀਆਂ (ਲੰਮੀਆਂ) |
| (iii) ਢੋਲਾ | (iv) ਮਾਹੀਆ |
| (v) ਨੀਤੀ ਕਥਾਵਾਂ | (vi) ਦੰਤ ਕਥਾਵਾਂ |
| (vii) ਪ੍ਰੀਤ ਕਥਾਵਾਂ | |

ਭਾਗ-ਦੂਜਾ

ਅਧਿਆਇ-2 ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ

- (i) ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ
- (ii) ਡਾਕ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ
- (iii) ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ

ਅਧਿਆਇ-3 ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ

- (i) ਪੱਤਰ ਨੰ: 6 ਤੋਂ 12 ਤੱਕ
- (ii) ਅਭਿਆਸ ਵਿਚਲੇ ਪੱਤਰ 7 ਤੋਂ 16 ਤੱਕ

ਅਧਿਆਇ-4 ਇਸ਼ਤਿਹਾਰ -ਸੱਦਾ ਪੱਤਰ

- (i) ਇਸ਼ਤਿਹਾਰ 15 ਤੋਂ 25 ਤੱਕ
- (ii) ਸੱਦਾ-ਪੱਤਰ 5 ਤੋਂ 10 ਤੱਕ

ਅਧਿਆਇ-5 ਪੈਰਾ ਰਚਨਾ

- (i) ਪੈਰਾ ਰਚਨਾ 11 ਤੋਂ 18 ਤੱਕ
- (ii) ਪੈਰਾ ਅਭਿਆਸ 'ਚੋਂ 6 ਤੋਂ 19 ਤੱਕ

ਅਧਿਆਇ-6 ਮੁਹਾਵਰੇ

- (i) 41 ਤੋਂ 102 ਤੱਕ

3. PUNJAB HISTORY & CULTURE SEMESTER-I

Time-2 ½Hours

Theory : 55 Marks

CCE/Internal Assessment: 25 Marks

Total : 80 Marks

STRUCTURE OF THE 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 land of the people.
2. The age of the Harappa Culture.
3. The Age of the Vedic Aryans.
4. From the Buddha to Ashoka.

SEMESTER-II

Time : 3 hours
Marks

Theory : 85

CCE/Internal Assessment : 35 Marks

Total : 120 Marks

STRUCTURE OF QUESTION PAPER

1. There will be 24 questions in all. All the question will be compulsory.
2. Questions No. 1 to 10 will carry 1 marks each. Answer of each question should be in about 10-15 words. 1 x 10 = 10
3. Questions No. 11 to 15 will carry 2 marks each. Answer of each question should be in about 20-25 words. 2 x 5 = 10
4. Questions No. 16 to 21 will carry 5 marks each. Answer of each question should be in about 80-85 words. 5 x 6 = 30

5. Questions No. 22 to 24 will carry 10 marks each. Answer of each question should be in about 250-300 words. There will be 100% internal choice in these questions. The paper-setter should not set more than one such question from one chapter. 10 x 3 = 30
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) Invasions and impact.
- 2) The Gupta-Vardhana Age.
- 3) The Turks in the Punjab.
- 4) Education and Literature.
- 5) Art and Architecture.
- 6) The Siddhas and the Sufis.

4. ENVIRONMENT EDUCATION SEMESTER-I

**Time : 2½ hrs.
Marks**

Theory : 30

CCE/Internal Assessment : 10 Marks

Total : 40 Marks

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
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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
Total	14		30

SYLLABUS

Unit-I: Man and Environment

Lessons

1. Environment
2. Population and environment
3. Impact of Human Activities on Environment

Unit-II: Environment and Development

Lessons

4. Economic and Social Development
5. Impact of Liberalization and Globalization
6. Role of Society in Development and environment

SEMESTER-I

Unit-I: Man and Environment

1. Environment

- Dimensions of Environment-physical, biological and social.
- Human being as rational and social partner in environmental actions.
- Society and environment in India: Indian traditions, customs and culture past and present.

2. Population and environment

- Population and Environment

3. Impact of Human Activities on Environment

- Environmental problems of urban and rural areas.
- Natural resources and their depletion
- Stress on civic amenities, supply of water and electricity, waste disposal, transport, health services.
- Vehicular emissions.
- Urbanisations-land use, housing, migrating and floating population.

Unit-II: Environment and Development

4. Economic and Social Development

- Economic and social needs as basic considerations for development
- Agriculture and industry as major sector of Development

- Social factors affecting development-poverty, affluence, education, employment, child marriage and child labour, human health-HIV/AIDS social culture and ethical values.

5. Impact of Liberalization and Globalization

- Impact of liberalization and globalization-agriculture and industries, dislocation of manpower and unemployment implications for social harmony.

6. Role of Society in Development and environment

- Role of Society in Development and environment-public awareness through education, eco-clubs, population education programme campaigns, public participation in decision-making.

SEMESTER-I

CCE

Exemplar projects and activities

It is expected that students will undertake two projects or activities, one of which should be undertaken individually and they will prepare report in each case. Teachers may plan and design projects and activities depending upon the local situations, available resources and environmental issues of concern. The projects and activities given below are only suggestive and not prescriptive.

- To study the changes that have taken place in the given land area of a city/village/locality/market during the last five years in respect of at least five parameters like number of houses, residents and families, food habits, number of household goods in a family, consumption of water, electricity and fuels sources of noise (public address systems being used, television, radio and vehicles on the road), common facilities like number of schools, hospitals, shops, theatres, public convenience, public utilities, public transport, number of factories, industries and/or the facilities for production and processing of goods, loss of water bodies, types and quality of wastes, their disposal and treatment facilities with a view to discussing the patterns of changes and impact on the environment and quality of life. One specific project on these aspects may be to study the number of houses, residents and land area during the last five years in respect of the number of houses, residents and families and to prepare a report on their effects of civic amenities like availability of water, electricity and fuels, the drainage system, disposal of wastes including night soil.
- To study the environment profile of a town/locality/village in respect of population density, green cover; educational level of residents, social problems and sources of pollution and their effects on air, water and soil.

SEMESTER-II

**Time : 3 hrs.
Marks**

Theory : 40

CCE/Internal Assessment : 20 Marks

Total : 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
Total	17		40

SYLLABUS

Unit-III: Environmental Pollution and Global Issue

7. Environmental Pollution
8. Pollution and Diseases
9. Global Issues and Improvement of Environment
10. Disaster

Unit-IV: Energy

11. Energy Consumption
12. Conventional Sources of Energy
13. Non-Conventional Sources of Energy
14. Conservation of Energy

Unit-V: Safe Work Environment and Occupational Hazards

15. Safe Work Environment
16. Safety Laws, Accidents and First-Aid

Unit-III: Environmental Pollution and Global Issue

7. Environmental Pollution

- Air water (fresh and marine), soil pollution-sources and consequences.
- Noise and radiation pollution-sources and consequences.
- Solid, liquid and gaseous pollution

8. Pollution and Diseases

- Handling of hazardous material and process and management of hazardous wastes.
- Pollution related diseases.
- Strategies for reducing pollution and improving the environment.

9. Global Issues and Improvement of Environment

- Ozone Layer depletion and its effects.
- Greenhouse effect global warming and climate changes and their effects on human society, agriculture, plants and animals.

10. Disaster

- Disaster-natural (earthquake, droughts, floods, cyclones, landslides) and man made (technological and industrial), their impact on the environment, prevention, control and mitigation.

Unit-IV: Energy

11. Energy Consumption

- Changing global patterns of energy consumption-from ancient to modern times.
- Energy consumption as a measure of quality of life.
- Rising demand of energy gap between demand and supply (Indian context).

12. Conventional Sources of Energy

- Conventional energy sources-fossil fuels and firewood, potential (Indian context) and limitations of each source, methods of harnessing energy and consequences of their Non-judicious use.

13. Non-Conventional Sources of Energy

- Non-conventional energy sources-type of non-conventional sources (bio-mass, solar, wind, ocean, hydel, geothermal, nuclear), potential (Indian context) and limitations of each source, methods of harnessing energy and their environmental consequences, need to promote non-conventional energy sources.

14. Conservation of Energy

- Conservation of energy sources-efficiency in production, transportation and utilization of energy.
- Future sources of energy-hydrogen, alcohol, fuel cells.

Unit-V: Safe Work Environment and Occupational Hazards

15. Safe Work Environment

- Safe work environment-adequate light, ventilation, cleanliness, good house keeping.

16. Safety Laws, Accidents and First-Aid

- Safety awareness management-safety precautions-home and work (laboratory, workshop, work site), safe handling of equipments and material.
- Occupational hazards-physical, chemical, mechanical, electrical, biological, radiational and psychological.
- Accidents and major hazards in industries and occupations-fire, explosion, toxic release.
- First aid measures.
- Laws and regulations related to occupational health and safety.

SEMESTER-II

CCE

Exemplar projects and activities

It is expected that students will undertake two projects or activities, one of which should be undertaken individually, and they will prepare report in each case. Teachers may plan and design projects and activities depending upon the local situations, available resources and environmental issues of concern. The projects and activities given below are only suggestive and not prescriptive.

- To improvise two models of greenhouses of similar dimensions made from low cost/on cost material, to place them in open under identical conditions; and put some potted plants in one of them to note the temperature inside and outside of both the greenhouses every two hours from dawn to dusk for two weeks. To explain the reasons, the differences in temperature, if any, between the two green houses.
- To collect data on monthly consumption of electricity and fuels from atleast five families, any two commercial establishments and four public utilities in given locality. To plan strategies for educating consumers to economies of the consumption of electricity and fuel by reducing their over-use, misuse and improper use.
- To study for a period of one month the status of sanitary conditions and method of waste disposal of a given locality vis-à-vis the role of

Panchayat, Municipality or Corporation and to prepare an action plan for making the conditions more environment friendly.

- To investigate the impact of an industry or a large manufacturing unit on* the local environment. The parameters could be land use, the ratio of the covered area and the open space, the raw materials used for production, inputs like electricity and water, the types of waste generated and the modes of waste disposal, use of environment friendly and efficient technology, types of pollutants emitted or discharged, the average healthy status of the employees and residents in the area.
- To collect samples of water from different sources and study their physical characteristics like turbidity, colour, odour, the measures of pH. the nature of suspended and dissolved impurities and pollutants, the presence of toxic materials like mercury, lead, arsenic, fluorine and the presence of living organisms. For testing the presence of toxic materials and living organisms the help of local laboratory and institution may be taken, if available. To identify the most polluted sample of water and locate the sources of its pollution. To devise an action plan for mobilizing public opinion for checking the pollution.
- To prepare a status report on the prevalence of child labour in a given area through a simple surveys on children engaged as domestic help, as workers in farms, commercial establishment and manufacturing units. The survey may be in respect of age group, education, wages, working hours, working conditions, safety in work place, healthy handling of hazardous materials. Units dealing with hazardous materials and processes may be identified and an action plan for mobilizing public opinion against the practice of child labour may be prepared.
- To prepare a flow chart to show different steps involved the supply of tap water from the source (river, bore-well) to houses in the locality. To collect information from the concerned authorities about the quantity of water processed and the amount of energy required for the purpose at each stage. To compute the energy spent for supplying one kilolitre of water to the consumer. To plan and execute a campaign to educate the community members about the implications of wastage of water in terms of energy.
- To conduct a survey through observation and interviews about the prevailing work environment of an establishment such as workshop, factory, manufacturing unit, hospital or any other related to a specific vocation and prepare a report highlighting the presence or absence of the desirable environmental conditions.

- To study through observation and interviews, practices followed by the workers in handling hazardous chemicals or hazardous processes and to prepare an action plan suggesting remedial measures.
- To prepare a model action plan for generation of biogas and other useful products from biodegradable and non-biodegradable wastes on the basis of data collected from a village or locality indicating environmental and economic benefits.
- To study through observation and interviews the extent of adherence to the prescribed norms of safety in the manufacturing units and automobile workshops in the locality and to prepare a report thereon.

5. ਕੰਪਿਊਟਰ ਸਾਇੰਸ

ਸਮੇਸਟਰ - I

ਸਮਾਂ : 2 ਘੰਟੇ 30 ਮਿਨਟ

ਲਿਖਤੀ : 30 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਇੰਟ, ਅਸੈਸ. 10 ਅੰਕ

ਪ੍ਰਯੋਗੀ : 40 ਅੰਕ

ਕੁਲ ਅੰਕ : 80 ਅੰਕ

ਅਗਵਾਈ ਲੀਹਾਂ (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 ਸਮੇਸਟਰ-I ਲਈ ਨਿਰਧਾਰਤ ਪਾਠ ਕ੍ਰਮ ਦਾ ਪੂਰਕ ਹੋਵੇਗਾ।

ਪਾਠ ਕ੍ਰਮ

(ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

1. **ਦਸਵੀਂ ਕਲਾਸ ਦੀ ਦੁਹਰਾਈ**

ਸਾਫਟਵੇਅਰ ਸੰਕਲਪ

ਸਿਸਟਮ ਸਾਫਟਵੇਅਰ:ਐਪਰੇਟਿੰਗ ਸਿਸਟਮ, ਯੂਟਿਲਿਟੀ ਸਾਫਟਵੇਅਰ, ਐਪਲੀਕੇਸ਼ਨ ਸਾਫਟਵੇਅਰ

ਐਕਸੈਲ:ਡਾਟਾ ਟਾਈਪ ਫਾਰਮੂਲਾ ਅਤੇ ਫੰਕਸ਼ਨਜ਼,ਐਕਸਲ ਅਤੇ

ਫਾਈਨੈੱਨਸ਼ਿਅਲ ਡਾਟਾ

ਐਚ.ਟੀ.ਐਮ.ਐਲ .ਦੀ ਦੁਹਰਾਈ(Review on HTML):ਵੈੱਬ ਪੇਜਿਸ,ਐਚ.ਟੀ.ਐਮ. ਐਲ.(HTML) ਫਾਈਲ,

ਮਾਇਕਰੋਸਾਫਟ ਅਸੈਸ: ਡਾਟਾ ਸੋਧਨਾ,ਅਸੈਸ ਡਾਟਾਬੇਸ ਦੇ ਆਬਜੈਕਟਸ (ਟੇਬਲ, ਕੁਐਰੀਜ਼, ਫਾਰਮ, ਰਿਪੋਰਟ, ਪੇਜ)

ਪ੍ਰੋਗਰਾਮਿੰਗ ਕੰਨਸੈਪਟਸ ਦੀ ਦੁਹਰਾਈ (Review on programming concepts) : ਪ੍ਰੋਗਰਾਮ ਡਿਵੈਲਪਮੈਂਟ

ਦੇ ਵੱਖ-ਵੱਖ ਪੜਾਅ,ਪ੍ਰੋਗਰਾਮਿੰਗ ਭਾਸ਼ਾ ਦੇ ਐਲੀਮੈਂਟਸ

2. **”ਸੀ” ਭਾਸ਼ਾ ਵਿਚ ਪ੍ਰੋਗਰਾਮਿੰਗ ਲਈ ਭੂਮਿਕਾ**

ਭੂਮਿਕਾ

ਸੀ (C) ਭਾਸ਼ਾ ਦੇ ਵਿਸ਼ੇਸ਼ ਲੱਛਣ

ਸੀ (C) ਚਿੰਨ੍ਹ ਸੈੱਟ: ਐਸਕੇਪ ਚਿੰਨ੍ਹ, ਵਾਈਸ ਸਪੇਸ ਕਰੈਕਟਰ

ਸੀ (C) ਪ੍ਰੋਗਰਾਮ ਦਾ ਸਟਰਕਚਰ: ਹੈਡਰ ਫਾਈਲਜ਼, ਪ੍ਰੀ-ਪ੍ਰੋਸੈਸਰ ਸਟੇਟਮੈਂਟ/ਨਿਰਦੇਸ਼,ਗਲੋਬਲ ਡਿਕਲੇਰੇਸ਼ਨਸ,

ਸੀ (C) ਪ੍ਰੋਗਰਾਮ ਦਾ ਕੰਪਾਈਲ ਅਤੇ ਲਾਗੂ ਕਰਨ

ਐਡੀਟਰ ਦੀ ਵਰਤੋਂ

ਫੰਕਸ਼ਨ: ਬਿਲਟ ਇਨ ਫੰਕਸ਼ਨਸ,ਯੂਜ਼ਰ ਪਰਿਭਾਸ਼ਤ ਫੰਕਸ਼ਨਸ

ਫਾਰਮੇਟਡ ਆਈ/ਓ ਫੰਕਸ਼ਨ: ਪ੍ਰਿੰਟਐਫ ਫੰਕਸ਼ਨ(printf()),ਸਕੈਨਐਫ ਫੰਕਸ਼ਨ(scanf()) ਸੀ (C) ਪ੍ਰੋਗਰਾਮਿੰਗ

ਨਾਲ ਸ਼ੁਰੂਆਤ ਕਰਨੀ: ਟਰਬੋ ਸੀ ਨੂੰ ਸਥਾਪਿਤ ਕਰਨਾ, ਪ੍ਰੋਗਰਾਮ ਦੀ ਕੰਪਾਇਲਿੰਗ ਅਤੇ ਐਗਜ਼ਿਕਿਊਟਿੰਗ

3. **ਕਾਂਸਟੈਂਟਸ , ਵੈਰੀਏਬਲਜ਼ ਅਤੇ ਡਾਟਾ ਟਾਈਪਸ**

ਭੂਮਿਕਾ

ਕਾਂਸਟੈਂਟਸ/ਸ਼ਾਬਦਿਕ : ਸੀ (C) ਕਾਂਸਟੈਂਟਸ ਦੀਆਂ ਟਾਈਪਸ

ਸੀ (C) ਵੈਰੀਏਬਲਜ਼/ ਆਈਡੈਂਟੀਫਾਈਰ ਦੀਆਂ ਟਾਈਪਸ: ਡਿਲੀਮਿਟਰ, ਵੈਰੀਏਬਲਜ਼ ਦਾ

ਡਿਕਲੇਰੇਸ਼ਨ/ਇਨਿਸ਼ਿਯਲਾਈਜੇਸ਼ਨ,

ਵੈਰੀਏਬਲ ਵਿਚ ਕਾਂਸਟੈਂਟ ਸਟੋਰ ਕਰਨਾ

ਡਾਟਾ ਟਾਈਪਸ : ਬਿਲਟ ਇਨ ਡਾਟਾ ਟਾਈਪਸ (ਇੰਨਟੀਜਰ, ਫਲੋਟਿੰਗ ਪੁਆਇੰਟ - ਡਾਟਾ ਟਾਈਪਜ਼, ਕਰੈਕਟਰ ਡਾਟਾ ਟਾਈਪ, ਡਬਲ, ਵੋਆਇਡ ਡਾਟਾ ਟਾਈਪ), ਮੇਨ ਫੰਕਸ਼ਨ ਹੈਡਰ, ਟੋਕਨਜ਼(ਆਈਡੈਂਟੀਫਾਇਰਜ਼, ਕੀ- ਵਰਡਜ਼, ਕਾਂਸਟੈਂਟ, ਓਪਰੇਟਰਸ) : ਕੀ-ਵਰਡਜ਼ ਅਤੇ ਆਈਡੈਂਟੀਫਾਇਰਜ਼, ਟਾਈਪ ਮੋਡੀਫਾਈਰ ਜਾਂ ਕੁਆਲੀਫਾਈਰ

4. ਓਪਰੇਟਰਸ ਅਤੇ ਐਕਸਪ੍ਰੈਸ਼ਨ

ਭੂਮਿਕਾ

ਓਪਰੇਟਰਸ ਅਤੇ ਐਕਸਪ੍ਰੈਸ਼ਨ : ਐਕਸਪ੍ਰੈਸ਼ਨ, ਬਾਇਨਰੀ ਓਪਰੇਟਰ, ਐਪਰੇਸ਼ਨਜ਼ ਅਤੇ ਹਿਰੈਚੀਕਲ ਆਰਡਰ (Operations & Hierarchical order)

ਰਿਲੇਸ਼ਨਲ ਅਤੇ ਲੋਜੀਕਲ ਓਪਰੇਟਰ : ਲੋਜੀਕਲ ਓਪਰੇਟਰ, ਅਸਾਈਨਮੈਂਟ ਓਪਰੇਟਰ ,ਇਨਕਰੀਮੈਂਟ ਐਂਡ ਡਿਕਰੀਮੈਂਟ ਓਪਰੇਟਰ, ਟਰਨਰੀ ਓਪਰੇਟਰ, ਕੌਮਾ ਓਪਰੇਟਰ, ਸਾਈਜਆਫ() ਓਪਰੇਟਰ, ਬਿਟਵਾਈਜ ਓਪਰੇਟਰ

ਅਗਵਾਈ ਲੀਹਾਂ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

ਸਮਾਂ : 3 ਘੰਟੇ

ਅੰਕ : 40

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 ਓਬਜੈਕਟਿਵ 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. ਦੁਹਰਾਈ

ਐਕਸੈਲ

ਐਚ. ਟੀ. ਐਮ. ਐਲ

ਮਾਇਕਰੋਸਾਫਟ ਅਸੈਸ : ਡਾਟਾ ਸੋਧਨਾ, ਅਸੈਸ ਡਾਟਾਬੇਸ ਦੇ ਆਬਜੈਕਟਸ

2. ਸੀ ਪ੍ਰੋਗਰਾਮ

ਸਟਰਕਚਰ : ਗਲੋਬਲ ਡਿਕਲੈਰੇਸ਼ਨ, ਸੀ ਪ੍ਰੋਗਰਾਮ ਦਾ ਕੰਪਾਈਲ ਅਤੇ ਲਾਗੂ ਕਰਨਾ

ਐਡੀਟਰ ਦੀ ਵਰਤੋਂ

ਫੰਕਸ਼ਨ : ਬਿਲਟ ਇਨ ਫੰਕਸ਼ਨ, ਯੂਜ਼ਰ ਪਰਿਭਾਸ਼ਤ ਫੰਕਸ਼ਨਜ਼, ਫਾਰਮੇਟਡ ਆਈ / ਓ ਫੰਕਸ਼ਨ

ਸੀ ਪ੍ਰੋਗਰਾਮਿੰਗ ਨਾਲ ਸ਼ੁਰੂਆਤ ਕਰਨੀ : ਟਰਬੋ ਸੀ ਨੂੰ ਸਥਾਪਿਤ ਕਰਨਾ, ਪ੍ਰੋਗਰਾਮ ਦਾ ਕੰਪਾਇਲਿੰਗ ਅਤੇ

ਐਗਜ਼ਿਕਿਊਟਿੰਗ

ਇੰਸਟਾਲੇਸ਼ਨ

ਓਪਰੇਟਰ

ਸਮੇਸਟਰ - II

ਸਮਾਂ : 3 ਘੰਟੇ

ਲਿਖਤੀ : 40 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਇੰਟ, ਅਸੈਸ. 20 ਅੰਕ

ਪ੍ਰਯੋਗੀ : 60 ਅੰਕ

ਕੁਲ ਅੰਕ : 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 ਸਮੇਸਟਰ-2 ਲਈ ਨਿਰਧਾਰਤ ਪਾਠ ਕ੍ਰਮ ਦਾ ਪੂਰਕ ਹੋਵੇਗਾ।

ਪਾਠ ਕ੍ਰਮ (ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

1. ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ-I)

ਭੂਮਿਕਾ

ਡਿਸਿਜਨ ਮੇਕਿੰਗ ਸਟੇਟਮੈਂਟਸ : ਇਫ ਸਟੇਟਮੈਂਟ (if statement), ਇਫ ਐਲਸ (if-else)

ਸਵਿਚ ਸਟੇਟਮੈਂਟ

ਬ੍ਰੇਕ ਸਟੇਟਮੈਂਟ

ਨਿਰੰਤਰ ਸਟੇਟਮੈਂਟ

2. ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ-II)

ਭੂਮਿਕਾ

ਕੰਟਰੋਲ ਲੂਪ ਸਟਰਕਚਰ : ਵਾਈਲ ਸਟੇਟਮੈਂਟ (While statement) ,ਡੂ ਵਾਈਲ (do while) , ਫਾਰ ਸਟੇਟਮੈਂਟ, ਫਾਰ ਲੂਪ ਸਟੇਟਮੈਂਟ (For loop Statement)

3. ਐਰੇਸ (ਭਾਗ-I)

ਭੂਮਿਕਾ

ਐਰੇ ਦੀ ਡਿਕਲੇਅਰਿੰਗ ਅਤੇ ਇਨਸ਼ਿਯਆਈਜ਼ੇਸ਼ਨ : ਇਨਸ਼ਿਯਆਈਜ਼ਿੰਗ ਐਰੇਸ

ਕੁਝ ਵਿਸ਼ੇਸ਼ ਨਿਯਮ : ਐਰੇ ਵਿਚ ਡਾਟਾ ਪ੍ਰਵੇਸ਼ ਕਰਨਾ,

ਐਰੇ ਕਾਪੀ ਕਰਨੀ

ਐਰੇ ਦੇ ਮੁੱਲਾਂ ਦੀ ਪਹੁੰਚ-ਕਰਨੀ

ਐਰੇ ਐਲੀਮੈਂਟਸ ਦਾ ਪ੍ਰਬੰਧਨ

4. ਐਰੇਸ (ਭਾਗ-II)

ਭੂਮਿਕਾ

ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ : ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਦੀ ਡਿਕਲੇਰੇਸ਼ਨਲ, ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਦੀ ਬਣਤਰ,
ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਦਾ ਇਨੀਸ਼ਿਯਲਾਈਜੇਸ਼ਨ, ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਐਲੀਮੈਂਟਸ ਦਾ
ਇਨੀਸ਼ਿਯਲਾਈਜੇਸ਼ਨ, ਮੈਮਰੀ ਵਿਚ ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਐਲੀਮੈਂਟਸ

ਮਲਟੀ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇਸ- ਕੋਰ ਟਾਈਪ : ਮਲਟੀ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇਸ ਦੇ ਐਲੀਮੈਂਟਸ ਤੱਕ ਪਹੁੰਚ, ਕੋਰ
ਟਾਈਪ ਮਲਟੀ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਦਾ ਇਨੀਸ਼ਿਯਲਾਈਜੇਸ਼ਨ, ਕੋਰ ਵੱਰਡ ਪ੍ਰੋਸੈਸਿੰਗ ਦੇ ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ
ਇਕ-ਕੋਰ ਟਾਈਪ ਇਨਪੁੱਟ/ਆਊਟਪੁੱਟ

ਡੀਫਾਈਨ ਡਾਇਰੈਕਟਿਵ(# define directive)

5. ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ

ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ ਬਾਰੇ ਜਾਣਕਾਰੀ

ਡਾਕੂਮੈਂਟਸ ਨੂੰ ਪ੍ਰਿੰਟ ਕਰਨਾ

ਪ੍ਰਿੰਟਿੰਗ ਦੇ ਤਰੀਕੇ : ਆਫਸੈਟ ਪ੍ਰਿੰਟਿੰਗ, ਲੇਜਰ ਪ੍ਰਿੰਟਿੰਗ

ਫੋਟੋ

ਫਰੇਮ

ਪੇਪਰ ਲੇਆਊਟ

ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ ਅਤੇ ਵਰਡਪ੍ਰੋਸੈਸਰ ਵਿਚ ਅੰਤਰ

ਡਾਕੂਮੈਂਟ ਪਲੈਨਿੰਗ

ਮੁੱਖ ਸੂਚਨਾ ਨੂੰ ਖਾਸ ਤੌਰ ਤੇ ਦਿਖਾਇਆ ਜਾਣਾ : ਸਟਾਇਲ , ਮਾਰਜਨ, ਫੁਟਰ, ਫੋਟੋ

ਨੋਟ : ਬੋਰਡ ਵੱਲੋਂ ਪ੍ਰਕਾਸ਼ਿਤ ਪਾਠ-ਪੁਸਤਕ 'ਕੰਪਿਊਟਰ ਸਾਇੰਸ-11' ਪਾਠ ਨੰਬਰ 10 'ਕੋਰਲ ਡਰਾਅ' ਪਾਠ ਕ੍ਰਮ ਦਾ
ਹਿੱਸਾ ਨਹੀਂ ਹੈ। ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਇਸ ਪਾਠ ਵਿੱਚੋਂ ਕੋਈ ਪ੍ਰਸ਼ਨ ਨਹੀਂ ਪੁੱਛਿਆ ਜਾਵੇਗਾ।

ਅਗਵਾਈ ਲੀਹਾਂ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

ਸਮਾਂ : 3 ਘੰਟੇ

ਅੰਕ : 60

ਪ੍ਰੀਖਿਆ ਲਈ ਅੰਕ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :

ਸੈਕਸ਼ਨ - ਏ	ਵਾਇਵਾ - ਵੋਸ	10
ਸੈਕਸ਼ਨ - ਬੀ	ਪ੍ਰੋਗਰਾਮ ਰਿਕਾਰਡ ਫਾਇਲ	10

ਸੈਕਸ਼ਨ - ਸੀ	ਛੋਟੇ ਪ੍ਰੋਗਰਾਮ	16
ਸੈਕਸ਼ਨ - ਡੀ	ਵੱਡੇ ਪ੍ਰੋਗਰਾਮ	24
1.	ਸੈਕਸ਼ਨ ਏ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਤੋਂ ਪਾਠ ਕ੍ਰਮ ਵਿੱਚੋਂ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੋ-ਦੋ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਓਬਜੈਕਟਿਵ ਟਾਈਪ ਜਾਂ ਵਿਆਖਿਆ ਦੱਸਣੀ ਜਾਂ ਕੰਪਿਊਟਰ ਦੇ ਵੱਖ ਵੱਖ ਹਿੱਸਿਆਂ ਅਤੇ ਇਸ ਨਾਲ ਜੁੜੇ ਸਹਾਇਕਾਂ ਦੇ ਬਹੁਤ ਛੋਟੇ ਅਭਿਆਸ ਹੋਣਗੇ।	10 ਅੰਕ
2.	ਸੈਕਸ਼ਨ ਬੀ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਦਾ ਸਲਾਨਾ ਰਿਕਾਰਡ ਚੈਕ ਕੀਤਾ ਜਾਵੇਗਾ।	10 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 ਅੱਠ-ਅੱਠ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ, ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਲਈ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈੱਟਰ ਕਰਕੇ ਦੇਵੇਗਾ।	16 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 ਬਾਰਾਂ-ਬਾਰਾਂ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ, ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਲਈ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈੱਟਰ ਕਰਕੇ ਦੇਵੇਗਾ।	24 ਅੰਕ

ਪਾਠ ਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

ਸਮੇਸ਼ਟਰ -II

1. **ਕੰਟਰੋਲ ਫਲੋ ਭਾਗ-I**
ਡਿਸਿਜ਼ਨ ਮੇਕਿੰਗ ਸਟੇਟਮੈਂਟ : ਇਫ ਸਟੇਟਮੈਂਟ, ਇਫ ਐਲਸ ਸਟੇਟਮੈਂਟ
ਸਵਿਚ ਸਟੇਟਮੈਂਟ
ਬ੍ਰੇਕ ਸਟੇਟਮੈਂਟ
ਨਿਰੰਤਰ ਸਟੇਟਮੈਂਟ
2. **ਕੰਟਰੋਲ ਫਲੋ ਭਾਗ-II**
ਕੰਟਰੋਲ ਲੂਪ ਸਟਰਕਚਰ : ਵਾਈਲ ਸਟੇਟਮੈਂਟ, ਡੂ ਵਾਈਲ, ਫੋਰ ਸਟੇਟਮੈਂਟ (loop)
3. **ਐਰੇਸ ਭਾਗ-I**
ਐਰੇ ਵਿੱਚ ਡਾਟਾ ਪ੍ਰਵੇਸ਼ ਕਰਨਾ
ਐਰੇ ਕਾਪੀ ਕਰਨੀ
ਐਰੇ ਦੇ ਮੁੱਲਾਂ ਦੀ ਪਹੁੰਚ ਕਰਨੀ

ਐਰੇ ਐਲੀਮੈਂਟਸ ਦਾ ਪ੍ਰਬੰਧਨ : ਐਲੀਮੈਂਟਸ ਦਾ ਜੋੜ, ਐਲੀਮੈਂਟਸ ਦਾ ਗੁਣਾਂਕ-ਮੁੱਲ, ਐਲੀਮੈਂਟਸ ਦਾ ਪ੍ਰੋਡਕਟ, ਐਲੀਮੈਂਟਸ ਦਾ ਔਸਤਨ, ਉੱਚਤਮ ਅਤੇ ਨਿਉਨਤਮ ਅੰਕ ਲੱਭਣਾ

4. ਐਰੇਸ ਭਾਗ-II

ਦੋ-ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਦੀ ਬਣਤਰ ਅਤੇ ਇਨੀਸ਼ਿਯਲਾਈਜ਼ੇਸ਼ਨ

ਮਲਟੀ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇਸ : ਐਲੀਮੈਂਟਸ, ਇਨੀਸ਼ਿਯਲਾਈਜ਼ੇਸ਼ਨ, ਦੋ-ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ, ਇਕ-ਕੈਰ ਟਾਈਪ ਇਨਪੁੱਟ-ਆਊਟਪੁੱਟ

5. ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ

ਡਾਕੂਮੈਂਟ ਨੂੰ ਪ੍ਰਿੰਟ ਕਰਨਾ

ਪ੍ਰਿੰਟਿੰਗ ਦੇ ਤਰੀਕੇ : ਆਫਸੈਟ ਪ੍ਰਿੰਟਿੰਗ , ਫੁਟਰ ਪ੍ਰਿੰਟਿੰਗ

ਫੋਂਟਸ

ਫਰੇਮ

ਪੇਜ ਲੇਆਊਟ

ਡਾਕੂਮੈਂਟ ਪਲੈਨਿੰਗ

ਮੁੱਖ ਸੂਚਨਾ ਨੂੰ ਖਾਸ ਤੌਰ ਤੇ ਦਿਖਾਇਆ ਜਾਣਾ : ਸਟਾਇਲ, ਮਾਰਜਨ, ਫੁਟਰ, ਫੋਂਟ

1. ਪੰਜਾਬੀ (ਚੋਣਵਾਂ ਵਿਸ਼ਾ)

ਸਮੇਸਟਰ-I

ਸਮਾਂ: 2 ½ ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ-55 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ-25 ਅੰਕ

ਕੁੱਲ -80 ਅੰਕ

ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ (ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪਰੀਖਿਅਕਾਂ ਅਤੇ ਪੇਪਰ ਸੈਂਟਰਾਂ ਲਈ)

ਪ੍ਰਸ਼ਨ ਨੰ:1 ਇਹ ਪ੍ਰਸ਼ਨ ਵਸਤੂਨਿਸ਼ਠ ਕਿਸਮ ਦਾ ਹੋਵੇਗਾ ਅਤੇ ਇਸ ਵਿੱਚ ਇੱਕ ਜਾਂ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ, ਬਹੁ-ਚੋਣੀ ਪ੍ਰਸ਼ਨ ਜਾਂ ਖਾਲੀ ਥਾਂਵਾਂ ਭਰਨ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਇੱਕ ਅੰਕ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਇਸ ਪ੍ਰਕਾਰ ਹੋਵੇਗੀ।

ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)

ਦੋ ਅੰਕਾਂ ਦੇ ਪ੍ਰਸ਼ਨ ਸੂਫੀ-ਕਾਵਿ ਵਿੱਚੋਂ ਅਤੇ ਦੋ ਅੰਕਾਂ ਦੇ ਪ੍ਰਸ਼ਨ ਗੁਰਮਤਿ-ਕਾਵਿ ਵਿੱਚੋਂ ਪੁੱਛੇ ਜਾਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ ਕਵੀ ਦਾ ਨਾਂ ਪੁੱਛਣਾ, ਕਵਿਤਾ ਦਾ ਨਾਂ ਪੁੱਛਣਾ, ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਗੁਰਮਤਿ ਤੇ ਸੂਫੀ-ਕਾਵਿ ਦੀ ਪਾਠ-ਸਮਗਰੀ ਉੱਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। 4 ਅੰਕ

ਅੱਖੀਂ-ਡਿੱਠੀ ਦੁਨੀਆਂ: ਇਸ ਅਧੀਨ ਸਫ਼ਰਨਾਮਾ ਅੰਸ਼ ਦਾ ਨਾਂ, ਸਫ਼ਰਨਾਮਾਕਾਰ ਦਾ ਨਾਂ ਅਤੇ ਸੰਬੰਧਿਤ ਸਫ਼ਰਨਾਮਾ ਅੰਸ਼ਾਂ ਦੀ ਪਾਠ-ਸਮਗਰੀ ਨਾਲ਼ ਸੰਬੰਧਿਤ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। 3 ਅੰਕ

ਸਾਹਿਤ-ਬੋਧ: ਇਸ ਭਾਗ ਵਿੱਚ ਪੁੱਛੇ ਜਾਣ ਵਾਲ਼ੇ ਪ੍ਰਸ਼ਨ ਭਾਸ਼ਾ, ਲਿਪੀ ਦੇ ਮਹੱਤਵ, ਵਿਕਾਸ ਅਤੇ ਭਾਸ਼ਾ ਦੀ ਬਣਤਰ ਨਾਲ਼ ਸੰਬੰਧਿਤ ਹੋਣਗੇ। 3 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 2 ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਦੇ ਸੂਫੀ-ਕਾਵਿ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਬੰਦ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦੀ ਪ੍ਰਸ਼ੰਸਾ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 1+3=4 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 3 ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਦੇ ਗੁਰਮਤਿ-ਕਾਵਿ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਬੰਦ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦੀ ਪ੍ਰਸ਼ੰਸਾ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 1+3=4 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 4 ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਦੇ ਇਤਿਹਾਸ ਭਾਗ ਵਿੱਚੋਂ ਸੂਫੀ-ਕਾਵਿ ਅਤੇ ਗੁਰਮਤਿ-ਕਾਵਿ ਭਾਗਾਂ ਉੱਤੇ ਆਧਾਰਿਤ ਦੋ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 8 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 5 ਅੱਖੀਂ-ਡਿੱਠੀ ਦੁਨੀਆਂ ਪਾਠ-ਪੁਸਤਕ ਦੇ ਪਾਠਾਂ ਅਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਵਿੱਚੋਂ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲ਼ੇ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ ਤਿੰਨ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5+5+5=15 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 6 ਸਾਹਿਤ-ਬੋਧ ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਉੱਤੇ ਆਧਾਰਿਤ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਬਾਰੇ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲ਼ੇ ਚਾਰ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕੋਈ ਦੋ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 3+3=6 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 7 ਸਾਹਿਤ-ਬੋਧ ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਦਿੱਤੀ ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ ਉੱਤੇ ਆਧਾਰਿਤ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ:-

(ੳ) ਸੱਤ ਉਪ-ਭਾਸ਼ਾਈ ਸ਼ਬਦ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਚਾਰਾਂ ਦਾ ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਵਿੱਚ ਰੂਪਾਂਤਰ ਪੁੱਛਣਾ। ਹਰ ਸ਼ਬਦ ਦੇ ਨਾਲ਼ ਬਰੈਕਟ ਵਿੱਚ ਉਸ ਉਪ-ਭਾਸ਼ਾ ਦਾ ਨਾਂ ਵੀ ਦਿੱਤਾ ਜਾਵੇਗਾ।

(ਅ)

ਸੱਤ ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਦੇ ਸ਼ਬਦ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਚਾਰਾਂ ਦਾ ਕਿਸੇ ਉਪ-ਭਾਸ਼ਾ ਵਿੱਚ ਮਿਲਦਾ ਰੂਪ ਲਿਖਣਾ।

4+4= 8 ਅੰਕ

ਪਾਠ-ਕ੍ਰਮ

- 1) ਪੰਜਾਬੀ ਕਵਿਤਾ
- 2) ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਸੰਖੇਪ ਇਤਿਹਾਸ
- 3) ਪੰਜਾਬੀ ਸਫ਼ਰਨਾਮਿਆਂ ਦੇ ਅੰਸ਼
- 4) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ
- 5) ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ

ਭਾਗ-I

ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)

- 1) ਸੂਫੀ ਕਾਵਿ: ਸ਼ੇਖ ਫ਼ਰੀਦ, ਵਜੀਦ, ਸ਼ਾਹ ਹੁਸੈਨ
- 2) ਗੁਰਮਤਿ ਕਾਵਿ: ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ, ਗੁਰੂ ਅੰਗਦ ਦੇਵ ਜੀ, ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ

ਅੱਖੀਂ ਡਿੱਠੀ ਦੁਨੀਆਂ

- 1) ਗਿਆਨੀ ਹੀਰਾ ਸਿੰਘ ਦਰਦ (ਮਥਰਾ ਅਤੇ ਰੰਗੀਲੀ ਬ੍ਰਿਜ ਭੂਮੀ)
- 2) ਲਾਲ ਸਿੰਘ ਕਮਲਾ ਅਕਾਲੀ (ਲੰਦਨ ਅਤੇ ਲੰਦਨ ਦੇ ਲੋਕ)
- 3) ਸੋਹਣ ਸਿੰਘ ਜੋਸ਼ (ਰੂਸ ਦੀ ਸਰਦੀ)
- 4) ਡਾ. ਹਰਦਿੱਤ ਸਿੰਘ ਢਿੱਲੋਂ (ਅਮਰੀਕਨ ਸੱਭਿਅਤਾ)
- 5) ਪ੍ਰਿੰਸੀਪਲ ਸਰਮੁਖ ਸਿੰਘ ਅਮੋਲ (ਜੰਗਲਾਂ ਦੇ ਵਸਨੀਕ)
- 6) ਬਲਰਾਜ ਸਿੰਘ ਸਾਹਨੀ (ਰੱਜੀ ਪੁੱਜੀ ਮਿੱਟੀ)

ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ-1)

- 1) ਪੰਜਾਬੀ ਭਾਸ਼ਾ (ਪੰਜਾਬੀ ਦਾ ਮੱਹਤਵ, ਪੰਜਾਬੀ ਦਾ ਖੇਤਰ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਇਤਿਹਾਸ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਗੁਆਂਢੀ ਬੋਲੀਆਂ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਬਣਤਰ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਪਛਾਣ-ਚਿੰਨ੍ਹ (ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ),

ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਬੋਲੀਆਂ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਉੱਤੇ ਹੋਰਨਾਂ ਬੋਲੀਆਂ ਦਾ ਪ੍ਰਭਾਵ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਪੰਜਾਬੀ-ਸੱਭਿਆਚਾਰ

- 2) ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ: ਪੋਠੋਹਾਰੀ ਅਤੇ ਮਾਝੇ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦਾ ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਵਿੱਚ ਰੂਪਾਂਤਰ।

ਸਮੇਸਟਰ-II

ਸਮਾਂ: 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ-85 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ-35 ਅੰਕ

ਕੁੱਲ -120 ਅੰਕ

ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ (ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪਰੀਖਿਅਕਾਂ ਅਤੇ ਪੇਪਰ ਸੈੱਟਰਾਂ ਲਈ)

ਪ੍ਰਸ਼ਨ 1 : ਇਹ ਪ੍ਰਸ਼ਨ ਵਸਤੂਨਿਸ਼ਠ ਕਿਸਮ ਦਾ ਹੋਵੇਗਾ ਅਤੇ ਇਸ ਵਿੱਚ ਇੱਕ ਜਾਂ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ, ਬਹੁ-ਚੋਣੀ ਪ੍ਰਸ਼ਨ ਜਾਂ ਖਾਲੀ ਥਾਂਵਾਂ ਭਰਨ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਇੱਕ ਅੰਕ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਇਸ ਪ੍ਰਕਾਰ ਹੋਵੇਗੀ।

ਪੰਜਾਬੀ ਕਾਵਿ-ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ ਭਾਗ-1 : 4 ਅੰਕਾਂ ਦੇ ਪ੍ਰਸ਼ਨ ਸੂਫੀ-ਕਾਵਿ ਵਿੱਚੋਂ ਅਤੇ ਦੋ ਅੰਕਾਂ ਦੇ ਪ੍ਰਸ਼ਨ ਗੁਰਮਤਿ-ਕਾਵਿ ਵਿੱਚੋਂ ਪੁੱਛੇ ਜਾਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ ਕਵੀ ਦਾ ਨਾਂ ਪੁੱਛਣ, ਕਵਿਤਾ ਦਾ ਨਾਂ ਪੁੱਛਣਾ, ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਗੁਰਮਤਿ ਤੇ ਸੂਫੀ-ਕਾਵਿ ਦੀ ਪਾਠ-ਸਮਗਰੀ ਉੱਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। 4 ਅੰਕ

ਅੱਖੀਂ-ਡਿੱਠੀ ਦੁਨੀਆਂ : ਇਸ ਅਧੀਨ ਸਫ਼ਰਨਾਮਾ ਅੰਸ਼ ਦਾ ਨਾਂ, ਸਫ਼ਰਨਾਮਾਕਾਰ ਦਾ ਨਾਂ ਅਤੇ ਸੰਬੰਧਿਤ ਸਫ਼ਰਨਾਮਾ ਅੰਸ਼ਾਂ ਦੀ ਪਾਠ-ਸਮਗਰੀ ਨਾਲ ਸੰਬੰਧਿਤ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। 3 ਅੰਕ

ਸਾਹਿਤ-ਬੋਧ : ਇਸ ਭਾਗ ਵਿੱਚ ਪੁੱਛੇ ਜਾਣ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਭਾਸ਼ਾ, ਲਿਪੀ ਦੇ ਮਹੱਤਵ, ਵਿਕਾਸ ਅਤੇ ਭਾਸ਼ਾ ਦੀ ਬਣਤਰ ਨਾਲ ਸੰਬੰਧਿਤ ਹੋਣਗੇ। 3 ਅੰਕ

ਪ੍ਰਸ਼ਨ 2 : ਪੰਜਾਬੀ -ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਦੇ ਸੂਫੀ-ਕਾਵਿ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਬੰਦ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+5=7 ਅੰਕ

ਪ੍ਰਸ਼ਨ 3 : ਪੰਜਾਬੀ -ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਦੇ ਗੁਰਮਤਿ-ਕਾਵਿ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਬੰਦ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+5=7 ਅੰਕ

ਪ੍ਰਸ਼ਨ 4 : ਪੰਜਾਬੀ -ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਦੇ ਇਤਿਹਾਸ ਭਾਗ ਵਿੱਚੋਂ ਸੂਫੀ-ਕਾਵਿ ਅਤੇ ਗੁਰਮਤਿ-ਕਾਵਿ ਭਾਗਾਂ ਉੱਤੇ ਆਧਾਰਿਤ ਦੋ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 6 ਅੰਕ

- ਪ੍ਰਸ਼ਨ 5 : ਪੰਜਾਬੀ -ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਦੇ 'ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਸੰਖੇਪ ਇਤਿਹਾਸ' ਭਾਗ ਵਿੱਚੋਂ ਸੂਫੀ-ਕਾਵਿ ਅਤੇ ਗੁਰਮਤਿ-ਕਾਵਿ ਭਾਗਾਂ ਉੱਤੇ ਆਧਾਰਿਤ ਦੋ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 15 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 6 : ਅੱਖੀਂ-ਡਿੱਠੀ ਦੁਨੀਆਂ ਪਾਠ-ਪੁਸਤਕ ਦੇ ਪਾਠਾਂ ਅਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਵਿੱਚੋਂ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ ਦੋ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5+5=10 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 7 : ਅੱਖੀਂ-ਡਿੱਠੀ ਦੁਨੀਆਂ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਸ਼ਾਮਲ ਸਫ਼ਰਨਾਮਿਆਂ 'ਤੇ ਆਧਾਰਿਤ ਪਾਠਾਂ ਵਿੱਚੋਂ ਸਾਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 10 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 8 : ਸਾਹਿਤ-ਬੋਧ ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਉੱਤੇ ਆਧਾਰਿਤ, ਪੰਜਾਬੀ-ਭਾਸ਼ਾ ਤੇ ਗੁਰਮੁਖੀ-ਲਿਪੀ ਬਾਰੇ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਚਾਰ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕੋਈ ਦੋ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5+5=10 ਅੰਕ
- ਪ੍ਰਸ਼ਨ 9 : ਸਾਹਿਤ-ਬੋਧ ਭਾਗ-1 ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਦਿੱਤੀ ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ ਉੱਤੇ ਆਧਾਰਿਤ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ :-
- (ੳ) ਸੱਤ ਉਪ-ਭਾਸ਼ਾਈ ਸ਼ਬਦ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਪੰਜ ਦਾ ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਵਿੱਚ ਰੂਪਾਂਤਰ ਪੁੱਛਣਾ। ਹਰ ਸ਼ਬਦ ਦੇ ਨਾਲ ਬਰੈਕਟ ਵਿੱਚ ਉਸ ਉਪ-ਭਾਸ਼ਾ ਦਾ ਨਾਂ ਵੀ ਦਿੱਤਾ ਜਾਵੇਗਾ।
- (ਅ) ਸੱਤ ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਦੇ ਸ਼ਬਦ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਪੰਜ ਦਾ ਪੰਜਾਬੀ ਦੀ ਕਿਸੇ ਉਪ-ਭਾਸ਼ਾ ਵਿੱਚ ਮਿਲਦਾ ਰੂਪ ਲਿਖਣਾ। 5+5=10 ਅੰਕ

ਸਮੇਸਟਰ-II

ਪਾਠ-ਕ੍ਰਮ

- 1) ਪੰਜਾਬੀ ਕਵਿਤਾ
- 2) ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਸੰਖੇਪ ਇਤਿਹਾਸ
- 3) ਪੰਜਾਬੀ ਸਫ਼ਰਨਾਮਿਆਂ ਦੇ ਅੰਸ਼
- 4) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ
- 5) ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ

ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1

- 1) ਸੂਫੀ ਕਾਵਿ: ਸੁਲਤਾਨ ਬਾਹੂ, ਬੁਲ੍ਹੇ ਸ਼ਾਹ, ਅਲੀ ਹੈਦਰ, ਹਾਸ਼ਮ ਸ਼ਾਹ
- 2) ਗੁਰਮਤਿ ਕਾਵਿ: ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ, ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ, ਭਾਈ ਗੁਰਦਾਸ ਜੀ, ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ

ਅੱਖੀਂ ਡਿੱਠੀ ਦੁਨੀਆਂ

- 1) ਬਲਵੰਤ ਗਾਰਗੀ (ਕਲਾਕਾਰਾਂ ਦੀ ਬਸਤੀ)
- 2) ਡਾ. ਰਾਮ ਸਿੰਘ (ਪਹਿਲਗਾਮ ਤੋਂ ਟੂਲੀਅਨ ਝੀਲ ਤੱਕ)
- 3) ਡਾ. ਸਾਧੂ ਸਿੰਘ ਹਮਦਰਦ (ਗਰੜ ਭਗਵਾਨ ਦੇ ਖੰਡਾਂ 'ਤੇ)
- 4) ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ (ਸਾਇਬੇਰੀਆ ਇਰਕੁਤਸਕ)
- 5) ਸੰਤੋਖ ਸਿੰਘ ਧੀਰ (ਇੰਗਲੈਂਡ ਅਤੇ ਭਾਰਤ)
- 6) ਡਾ. ਜਸਵੰਤ ਸਿੰਘ ਨੇਕੀ (ਯੂਰਪ ਦੀ ਫੇਰੀ)

- 7) ਹਰਿਭਜਨ ਸਿੰਘ ਹਲਵਾਰਵੀ (ਲੂਸ਼ਨ ਦਾ ਸ਼ਹਿਰ ਅਤੇ ਚੀਨ ਦੀ ਦੀਵਾਰ)
- 8) ਬਰਜਿੰਦਰ ਸਿੰਘ ਹਮਦਰਦ (ਅੰਡੇਮਾਨ ਨਿਕੋਬਾਰ ਦੀ ਧਰਤੀ 'ਤੇ)

ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ-1)

- 1) ਗੁਰਮੁਖੀ ਲਿਪੀ (ਗੁਰਮੁਖੀ ਲਿਪੀ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ)
- 2) ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ: ਦੁਆਬੀ , ਮਲਵਈ ਤੇ ਪੁਆਧੀ
ਉਪ- ਭਾਸ਼ਾਵਾਂ ਦਾ ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਵਿੱਚ ਰੂਪਾਂਤਰ

ਨਿਰਧਾਰਿਤ ਪਾਠ-ਪੁਸਤਕਾਂ:

- 1) ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) (ਭਾਗ-1)
2. ਅੱਖੀਂ-ਡਿੱਠੀ ਦੁਨੀਆਂ
- 3) ਸਾਹਿਤ-ਬੋਧ (ਭਾਗ-1)

2. HINDI

3. ENGLISH ELECTIVE SEMESTER-I

**TIME: 2½ Hrs.
Marks**

Theory: 55

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

STRUCTURE OF QUESTION PAPER

Objective type question no.1 will be compulsory (11 Marks)

- It will carry 11 marks and consist of 11 questions 1 mark each.
- Objective type question will cover the whole syllabus prescribed for semester-I.

Structure of Objective type question: 8 Questions from grammar portion will be asked.

APPLIED GRAMMAR

8 Marks

Do as directed type question covering the following items:

1. Voice
2. Use of words as noun, verb and adjective/adverb in sentences (Only one word)
3. Combining the two sentences with appropriate connective words.
4. Fill in the blank with suitable prepositions and given determiners.
5. Transformation of sentences.

Note: Question paper should be based on the exercises given in the prescribed book of grammar (A practice book of English grammar for class XI)

3 questions: 1 each from text will be asked **3**
Marks

1. English Reader Book-V 1
2. Selections from English Verse 1
3. A Book of Essays and Stories 1

PART-A

(A) ENGLISH READER BOOK-V (Text for detailed study) **13**
Marks

1. Comprehension of a passage
Comprehension is to be tested with the help of the following techniques:
 - i. Who spoke/wrote these words to whom/about whom/name of the chapter and author
 - ii. Short answer type question
 - iii. Matching exercise
 - iv. Fill in the blanks 5
2. One essay type question in about 100 words such as character-sketch, incident, episode etc. 4
3. (a) Use of given phrases in sentences 2
(b) Use of nouns/verbs/adjectives of the given words in sentences 2

(B) SELECTIONS FROM ENGLISH VERSE (text for detailed study) 8 Marks

4. (a) Explanation with reference to the context 5
(b) Any one out of summary of a poem and central idea 3

(C) A BOOK OF ESSAYS AND STORIES (text for non-detailed study) 10 marks

5. Short answer type questions from different lessons (three out of five) 6
6. One essay type question on incident/episode/character-sketch, theme etc. 4

PART-B

13 Marks

COMPOSITION

1. Letter 10
2. Translation from English into Vernacular 3
(A running passage of 3 sentences only)

Note: A special question in lieu of translation for foreign students. A paragraph to be developed through a given situation/outline.

SYLLABUS

SEMESTER-I

Book-I English Reader Book V

1. The Young Akbar
2. The Story of Sri Rama's Exile
3. The Discovery of Penicillin
4. The Story of Michael
5. Guru Gobind Singh

Book-II Selections From English Verse

1. The way of Poetry
2. Going Downhill on a Bicycle
3. My Native Land
4. The Snake
5. Abou Ben Adehm
6. The Patriot

Book-III A Book of Essays and Stories

1. The Real Princess
2. Gulliver is Lilliput
3. A Street Scene
4. Build Yourself for Leadership
5. Controlling the Mind
6. Three Questions

APPLIED GRAMMAR

1. Sentences:

- (a) Kinds of sentences: simplex, complex, compound
- (b) Forms of sentences: declarative, imperative, interrogative, exclamatory
- (c) Transformation of sentences: from simple to complex, exclamatory to declarative and vice-versa

2. Clauses:

- (a) Kinds of clauses: principal, co-ordinate and subordinate
- (b) Use of conditional clauses and relative clauses

3. Phrases: The Noun Phrase

- (a) Noun:
 - 1) Countable and uncountable
 - 2) Singular and Plural
- (b) Pronouns:
 - 1) Number
 - 2) Gender
 - 3) Person

Article and other determiners: Their sequence in the Noun phrase.

4. The Verb Phrase:

- (a) The helping verbs
- (b) The main verbs and the linking verbs
- (c) Transitive and Intransitive verbs
- (d) Verbs followed by different grammatical units examples preposition, pronoun, that clause etc.
- (e) Tense
- (f) Sequence of tenses
- (g) Use of correct form of verbs in given sentences

5. Prepositional Phrase:

- (a) Preposition and noun that go together
- (b) Preposition and verb
- (c) Preposition and adjective
- (d) Use or omission of preposition

6. Adjectives

7. Adverbs

8. Words:

- (a) Recognition of different parts of speech
- (b) Change of words from one part of speech into another
- (c) Use of words as different parts of speech

9. Voice: Change of sentences from active to passive and *vice versa*

Composition

- 1. Letter
- 2. Translation from English into Vernacular

Note: A special question in lieu of translation for foreign students. A paragraph to be developed through a given situation/outline.

SEMESTER-II

TIME: 3 Hrs.
Marks

Theory: 85

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 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 question covering the following items:

- (i) Voice
- (ii) Narration
- (iii) Use of words as noun, verb and adjective/adverb in sentences (Only one word)
- (iv) Combining the two sentences with appropriate connective words.
- (v) Fill in the blank with suitable prepositions and given determiners.
- (vi) Short response to Yes/No questions as in everyday use.
- (vii) Various concepts.
- (viii) Transformation of sentences.

Note: Question paper should be based on the exercises given in the prescribed book of grammar (A Practice book of English grammar for class XI)

6 questions: 2 each from text will be asked **6**
Marks

1. English Reader Book-V 2
2. Selections from English Verse 2
3. A Book of Essays and Stories 2

PART-A

(A) ENGLISH READER BOOK-V (Text for detailed study) **20**
Marks

1.	Comprehension of a passage	
	Comprehension is to be tested with the help of the following techniques:	
	(i) Who spoke/wrote these words to whom/about whom/name of the chapter and author	
	(ii) Short - answer type questions	
	(iii) Matching exercise	
	(iv) Fill in the blanks	
	(v) Meaning of difficult words in simple English	10
2.	One essay type question in about 100 words such as character-sketch, incident, episode etc.	5
3.	(a) Use of given phrases in sentences	2
	(b) Use of names/verbs/adjectives of the given words in sentences	3
(B)	SELECTIONS FROM ENGLISH VERSE (text for detailed study)	11
	Marks	
4.	(a) Explanation with reference to the context	5
	(b) Summary of a poem	3
	(c) Central idea	3
(C)	A BOOK OF ESSAYS AND STORIES (text for non-detailed study)	18
	Marks	
5.	Short answer type questions from different lessons (six out of eight)	12
6.	One essay type question on, incident/episode/character-sketch, theme etc.	6

PART-B

20 Marks

COMPOSITION

1.	Application/Telegram	8
2.	Essay (One out of three)	8
3.	Translation from English into Vernacular	4
	(A running passage of 5 sentences only)	

Note: A special question in lieu of translation for foreign students: A paragraph to be developed through a given situation/outline.

SYLLABUS

English Reader Book V

6.	Sohrab and Rustam-I
7.	Sohrab and Rustam-II
8:	A Modern Miracle

9. Abou Hassan and His Wife
10. A Spark Neglected Burns the House-I
11. A Spark Neglected Burns the House II

Book II Selections from English Verse

7. The Brook
8. Casabianca
9. Robin Hood and Alan-A-Dale (Anonymous)
10. Elegy on the Death of a Mad Dog
11. We are Seven
12. Lady Clare
13. The Charge of the Light Brigade

Book-III Book of Essays and Stories

7. The Cabuliwallah
8. The Emperor's New Clothes
9. Gandhi's Appeal
10. The Judgement Seat of Vikramaditya
11. The Black Cat
12. The Happy Prince
13. The Bet

APPLIED GRAMMAR

1. Sentences:

- (a) Kinds of sentences: simplex, complex, compound
- (b) Forms of sentences: declarative, imperative, interrogative, exclamatory
- (c) Transformation of sentences: from simple to complex, exclamatory to declarative and vice-versa

2. Clauses:

- (a) Kinds of clauses: principal, co-ordinate and subordinate
- (b) Use of conditional clauses and relative clauses

3. Phrases: The Noun Phrase

- (a) Noun:
 - 3) Countable and uncountable
 - 4) Singular Plural
- (b) Pronouns:
 - 4) Number
 - 5) Gender

6) Person

Article and other determiners: Their sequence in the noun phrase.

4. The Verb Phrase:

- (a) The helping verbs
- (b) The main verbs and the linking verbs
- (c) Transitive and Intransitive verbs
- (d) Verbs followed by different grammatical units e.g preposition, pronoun, that clause etc.
- (e) Tense
- (f) Sequence of tenses
- (g) Use of correct form of verbs in given sentences

5. Prepositional Phrase:

- a. Preposition and noun that go together
- b. Preposition and verb
- c. Preposition and adjective
- d. Use or omission of preposition

6. Adjectives

7. Adverbs

8. Words:

- (a) Recognition of different parts of speech
- (b) Change of words from one part of speech into another
- (c) Use of words as different parts of speech

9. Voice: Change of sentences from active to passive and *vice versa*

10. Narration

- (a) All forms of sentences including short dialogues
- (b) Change of sentences from direct to indirect and vice versa

11. Short responses:

Short responses to Yes/No questions as in everyday use

12. Various concepts:

How various concepts are expressed e.g request, wish, obligation, permission, determination, possibility etc.

COMPOSITION

- 1. Application/Telegram
- 2. Essay
- 3. Translation from English into Vernacular

Note: A special question in lieu of translation for foreign students. A paragraph to be developed through a given situation/outline.

Books Prescribed & Published by the Punjab School Education Board.

1. English Reader Book-V
2. Selections from English Verse
3. A Book of Essays and Stories
4. A Practice Book of English Grammar

4. URDU

5. SANSKRIT

6. ARABIC

7. PERSIAN

8. ਇਤਿਹਾਸ

ਸਮੇਸਟਰ-I

ਸਮਾਂ- 2^{1/2} ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 55 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ/ ਸੀ.ਸੀ.ਈ : 25 ਅੰਕ

ਕੁੱਲ : 80 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਤਿੰਨ ਹਿੱਸਿਆਂ ਭਾਗ 'ਉ', 'ਅ' ਅਤੇ 'ੲ' ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ। ਸਾਰੇ ਭਾਗ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
2. ਭਾਗ 'ਉ' ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਸਿਲੇਬਸ ਵਿੱਚੋਂ 'ਸਿੰਧ ਘਾਟੀ ਦੀ ਸਭਿਅਤਾ' ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।
3. ਭਾਗ 'ਅ' ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਸਿਲੇਬਸ ਵਿੱਚੋਂ 'ਵਰਧਨ ਸ਼ਾਸਕ ਅਤੇ ਉਹਨਾਂ ਦਾ ਸਮਾਂ 'ਤੋਂ, ਦੱਖਣੀ ਭਾਰਤ ਦੇ ਰਾਜ, ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।
4. ਭਾਗ 'ੲ' ਵਿੱਚ ਦੋ ਨਕਸ਼ੇ ਹੋਣਗੇ।
5. ਕੁਲ 19 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਅੰਕ ਉਸਦੇ ਸਾਹਮਣੇ ਦਿੱਤੇ ਹੋਣਗੇ।
6. ਭਾਗ 'ਉ' ਅਤੇ 'ਅ' ਵਿੱਚੋਂ 9-9 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ ਅਤੇ ਭਾਗ-ੲ ਵਿੱਚੋਂ ਨਕਸ਼ੇ ਦਾ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੋਵੇਗਾ।
7. ਭਾਗ 'ਉ' 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।
1 X 10= 10
8. ਭਾਗ 'ਉ' 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 X 6= 18
9. ਭਾਗ 'ਉ' 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 X 2= 16

10. ਭਾਗ 'ਬ' ਵਿੱਚੋਂ ਨਕਸ਼ੇ ਦਾ ਪ੍ਰਸ਼ਨ ਨੰ: 19 ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ, ਜਿਸ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਦਿੱਤੀ ਜਾਵੇਗੀ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਉਪ-ਭਾਗ 'ੳ' ਅਤੇ 'ਅ' ਹੋਣਗੇ। ਉਪ-ਭਾਗ 'ੳ' 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 ਇੱਕ ਵੱਖਰਾ ਪ੍ਰਸ਼ਨ ਕਰਨ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਉਪ-ਭਾਗ 'ੳ' ਅਤੇ 'ਅ' 6 ਅਤੇ 5 ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਦਿੱਤੀ ਜਾਵੇਗੀ।

ਪਾਠ ਕ੍ਰਮ ਦੀ ਵੰਡ

ਭਾਗ-ੳ

1. ਸਿੰਧੂ ਘਾਟੀ ਦੀ ਸਭਿਅਤਾ
2. ਭਾਰਤੀ ਆਰੀਆ
3. ਜੈਨ ਧਰਮ ਅਤੇ ਬੁੱਧ ਧਰਮ
4. ਮੌਰੀਆ ਯੁੱਗ
5. ਗੁਪਤਕਾਲ

ਭਾਗ-ਅ

6. ਵਰਧਨ ਸ਼ਾਸਕ ਅਤੇ ਉਨ੍ਹਾਂ ਦਾ ਸਮਾਂ
7. ਰਾਜਪੂਤ ਅਤੇ ਉਨ੍ਹਾਂ ਦਾ ਕਾਲ
8. ਦਿੱਲੀ ਸਲਤਨਤ
9. ਦੱਖਣ ਦੇ ਰਾਜ

ਭਾਗ-ਬ

1. ਸਿੰਧ ਘਾਟੀ ਸਭਿਅਤਾ, ਤੇ ਸਥਾਨ
2. ਅਸ਼ੋਕ ਦੇ ਸਾਮਰਾਜ ਦਾ ਵਿਸਥਾਰ
3. ਸੰਮੁਦਰਗੁਪਤ ਦੇ ਸਾਮਰਾਜ ਦਾ ਵਿਸਥਾਰ
4. ਮਹੱਤਵਪੂਰਨ ਇਤਿਹਾਸਿਕ ਸਥਾਨ

ਸਮੈਸਟਰ-II

ਸਮਾਂ- 3 ਘੰਟੇ

ਲਿਖਤੀ : 85 ਅੰਕ

ਸੀ.ਸੀ.ਈ/ ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 35 ਅੰਕ

ਕੁੱਲ : 120 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 'ਸਮਾਜਿਕ, ਧਾਰਮਿਕ ਅੰਦੋਲਨ ਤੋਂ ਉੱਤਰ ਵਿੱਚ ਨਵੀਆਂ ਸ਼ਕਤੀਆਂ ਦਾ ਉਥਾਨ' ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।
3. ਭਾਗ 'ਅ' ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਸਿਲੇਬਸ ਵਿੱਚੋਂ 'ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ' ਤੋਂ 'ਸੁਤੰਤਰਤਾ ਲਈ ਸੰਘਰਸ਼' ਤੱਕ ਦੀ ਸਮੱਗਰੀ ਸ਼ਾਮਲ ਹੋਵੇਗੀ।
4. ਭਾਗ 'ੲ' ਵਿੱਚ ਤਿੰਨ ਨਕਸ਼ੇ ਹੋਣਗੇ।
5. ਕੁੱਲ 21 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜਰੂਰੀ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਅੰਕ ਉਸਦੇ ਸਾਹਮਣੇ ਲਿਖੇ ਹੋਣਗੇ।
6. ਭਾਗ 'ੳ' ਅਤੇ 'ਅ' ਵਿੱਚੋਂ 10-10 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਭਾਗ-'ੲ' ਵਿੱਚੋਂ ਨਕਸ਼ੇ ਦਾ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੋਵੇਗਾ।
7. ਭਾਗ 'ੳ' 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 ਜਰੂਰੀ ਹਨ।
 $1 \times 10 = 10$
8. ਭਾਗ 'ੳ' 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 'ੳ' 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 ਚੋਣ ਹੋਵੇਗੀ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ 15 ਅੰਕ ਹੋਣਗੇ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਉਪ-ਭਾਗ 'ੳ' ਅਤੇ 'ਅ' ਹੋਣਗੇ। ਉਪ-ਭਾਗ 'ੳ' 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। 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।

ਪਾਠਕ੍ਰਮ

ਭਾਗ-ੳ

1. ਸਮਾਜਿਕ-ਧਾਰਮਿਕ ਅੰਦੋਲਨ
2. ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਅਤੇ ਸਿੱਖ ਧਰਮ ਦੀ ਸਥਾਪਨਾ
3. ਮੁਗਲ ਸਾਮਰਾਜ ਦੀ ਸਥਾਪਨਾ
4. ਮੁਗਲ ਰਾਜ-ਵਿਵਸਥਾ ਅਤੇ ਸ਼ਾਸਨ ਪ੍ਰਬੰਧ
5. ਦੱਖਣੀ ਭਾਰਤ ਵਿੱਚ ਨਵੀਆਂ ਸ਼ਕਤੀਆਂ ਦਾ ਉੱਥਾਨ
6. ਉੱਤਰੀ ਭਾਰਤ ਵਿੱਚ ਨਵੀਆਂ ਸ਼ਕਤੀਆਂ ਦਾ ਉੱਥਾਨ

ਭਾਗ-ਅ

7. ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ
8. ਯੂਰਪੀਅਨਾਂ ਦਾ ਆਗਮਨ ਅਤੇ ਸਰਵ-ਉੱਚਤਾ ਦੇ ਲਈ ਸੰਘਰਸ਼
9. ਅੰਗਰੇਜ਼ੀ ਸਾਮਰਾਜ ਦਾ ਵਿਸਤਾਰ ਅਤੇ ਸੰਗਠਨ
10. ਬ੍ਰਿਟਿਸ਼ ਸਾਮਰਾਜ ਦੇ ਅਧੀਨ ਆਰਥਿਕ ਅਤੇ ਸਮਾਜਿਕ ਪਰਿਵਰਤਨ
11. ਸਮਾਜਿਕ ਧਾਰਮਿਕ ਅੰਦੋਲਨ
12. ਰਾਜਨੀਤਿਕ ਜਾਗ੍ਰਤੀ ਅਤੇ ਅੰਗਰੇਜ਼ੀ ਸਾਮਰਾਜ ਦੇ ਵਿਰੁੱਧ ਰਾਜਨੀਤਿਕ ਅੰਦੋਲਨ
13. ਸੁਤੰਤਰਤਾ ਦੇ ਲਈ ਸੰਘਰਸ਼

ਭਾਗ-ੲ

1. 1526 ਵਿੱਚ ਭਾਰਤ
2. ਅਕਬਰ ਦੇ ਸਾਮਰਾਜ ਦਾ ਵਿਸਥਾਰ
3. ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਦੇ ਸਾਮਰਾਜ ਦਾ ਵਿਸਥਾਰ
4. ਮਹੱਤਵਪੂਰਨ ਇਤਿਹਾਸਿਕ ਸਥਾਨ

9. ECONOMICS (Humanities Group) **SEMESTER - I**

Time : 2¹/₂ 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. 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 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
STATISTICS FOR ECONOMICS

Unit-1. Introduction

What is Statistics? (in simple way): Meaning, Scope and Importance of Statistics in Economics.

Unit-2. Collection and Organization of Data.

- a) Collection of Data-Sources of Data-Primary and Secondary; How basic data is collected; methods of collecting data; some important sources of secondary data, census of India and National Sample Survey Organization.
- b) Organization of Data:
Presentation of Data and Diagrammatic Presentation of Data.
 - i. Geometric Forms (bar-diagrams, pie-diagrams).
 - ii. Frequency Diagrams (Histogram, Polygon and Ogive) and
 - iii. Arithmetic Line-graphs (time series graphs).

Unit-3. Statistical Tools and Interpretation

- a) Measures of Central Tendency-Mean (simple and weighted), Median Quartile and Mode.

PART-B
INDIAN ECONOMIC DEVELOPMENT

Unit-4 Development Policies and Experience (1947-90)

- i) A brief introduction of the state of Indian economy on the eve of Independence.
- ii) Common goals of Five year Plans.

Unit-5 Punjab Economy

- i) Manpower and Physical Resources of Punjab.
- ii) Agricultural Development of Punjab since 1966.
- iii) Industrial Development of Punjab since 1966.

- Structure, location and Industrial Policy of State Govt.
- iv) Growth and Pattern of Revenue and expenditure and financial position of Punjab Govt.
 - v) Economic planning in Punjab: Aims, objectives, strategy and performance of planning in Punjab.

SEMESTER - II

TIME- 3 Hours

Theory : 75 Marks
Project Work : 10 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. 14 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 14 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.

One 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. Answer limit of theoretical question should be 250-300 words.

SYLLABUS
PART-A
STATISTICS FOR ECONOMICS

Units 6 STATISTICAL TOOLS AND INTERPRETATION

- a. Measures of Dispersion- absolute (range, quartile deviation, mean deviation & standard deviation); relative dispersion (Co-efficient of quartile-deviation, coefficient of mean deviation, co-efficient of variation). Lorenz Curve. meaning and its application.
- b. Correlation:- Meaning, scatter diagram: measures of correlation-Karl Pearson's method (two variables ungrouped data). Spearman's rank correlation.
- c. Introduction to Index numbers- meaning, types. wholesale Price Index, consumer price Index and Index of Industrial production, uses of Index numbers; Inflation and Index numbers.

Unit-7 DEVELOPMENT PROJECTS IN ECONOMICS

The students be encouraged to develop projects which have primary data, secondary data or both. Case studies of a few organizations may also be encouraged. Some of the examples of the projects are as follows (they are not mandatory but more suggestive),

- i) A Report on demographic structure of your neighbourhood/Institution.
- ii) Consumer awareness amongst households.
- iii) Changing prices of a few vegetables in your market.
- iv) Study of a co-operative mstitution: Milk Co-operatives.

NOTE:- (The idea behind introducing this unit is to enable the students the ways and means by which project can be developed using the skills learned in the course. This include all the steps involved in designing a project starting from choosing a title, exploring the information relating to the title. Collection of primary and secondary data, analysing the data, presentation of the project and using various statistical tools and their interpretation and conclusion.)

PART-B
INDIAN ECONOMIC DEVELOPMENT

Unit.8 Development Policies and Experience (1947-90)

Main features, problems and policies of agriculture (institutional aspects and new agriculture strategy etc.), (Industrial licensing etc.) and foreign trade.

Unit-9 Economic Reforms Since 1991.

Need and main features-Liberalization, Globalization, Privatization and WTO.

Unit-10 Current Challenges facing Indian Economy.

- i) Poverty-absolute and relative; main programmes for poverty alleviation: A critical assessment.
- ii) Rural Development:
 - a) Rural finance and credit facility, The problem of Indebtedness.
 - b) Different sources of rural finance. The role of Co-operative Credit Societies, Agricultural Land Development Banks, Co-operative Banks, NABARD, RBI and other Govt. Agencies for the provision of finance to the rural people.
 - c) Rural Marketing Facilities:
 Problem of storage and marketing of Agricultural Produce in the Rural areas; Role of regulated and unregulated markets; Procurement and pricing policies of Agricultural produce.
- iii) Status of Education, Health and Employment in India.
 Environment: Sustainable Economic Development, Limited availability of Resources, Environmental degradation.

**10. MATHEMATICS
SEMESTER -I**

Time : 2.30 hrs.

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

STRUCTURE OF THE QUESTION PAPER

- Q 1. All Questions are Compulsory.
- Q 2. Q 1. will consists of seven parts and each part will carry one Mark.
- Q 3. Q 2. to Q 12 each will be of 3 Marks.
- Q 4. Q 13 to Q 15 i.e. three questions each will be of 5 marks.
- Q 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).
- Q 6. Use of Calculator is not allowed.

Sr. No.	Topic	Q. Carrying	Q. Carrying	Q. Carrying	Total Marks
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		1- Marks	3- Marks	5- Marks	
1.	Sets	1	2	-	7
2.	Relations & Functions	2	2	-	8
3.	Trigonometric Functions	2	4	-	14
4.	Principle of Mathematical Induction	-	-	1	5
5.	Complex numbers & Quadratic Equations	1	2	1	12
6.	Linear inequalities	1	1	1	09
	Total	7	11	3	55

SYLLABUS

1. Sets:

Sets and their representations. Empty set, Finite & Infinite sets, Equal sets. Subsets, subset of the set of real numbers especially intervals (with notations). Power set. Universal set.

Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of complement sets.

2. Relations & Functions :

Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the reals with itself (upto $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$). Definition of relation, pictorial diagrams. domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of a function. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and gréatest integer functions with their graphs. Sum, difference, product and quotients of functions.

3. Trigonometric Functions:

Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2x + \cos^2x = 1$, for all x . Signs of trigonometric functions and sketch of their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ Deducing the identities like the following:

$$\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \cdot \tan y}, \cot(x \pm y) = \frac{\cot x \cdot \cot y \mp 1}{\cot y \pm \cot x}$$

$$\sin x + \sin y = 2 \sin \frac{x+y}{2} \cdot \cos \frac{x-y}{2}, \cos x + \cos y = 2 \cos \frac{x+y}{2} \cdot \cos \frac{x-y}{2}$$

$$\sin x - \sin y = 2 \cos \frac{x+y}{2} \cdot \sin \frac{x-y}{2}, \cos x - \cos y = -2 \sin \frac{x+y}{2} \cdot \sin \frac{x-y}{2}$$

Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$. General solution of trigonometric equations of the type $\sin \theta = \sin \alpha$, $\cos \theta = \cos \alpha$ and $\tan \theta = \tan \alpha$. Proof and simple application of sine and cosine rules only.

4. Principle of Mathematical Induction:

Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

5. Complex Numbers and Quadratic Equations:

Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex number system. Square-root of a complex number, Cube roots of unity and their properties.

6. Linear Inequalities:

Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Solution of system of linear inequalities in two variables graphically. Inequalities involving modulus function.

SEMESTER -II

Time : 3 hrs.
Marks

Theory : 85

CCE/Internal Assessment - 35 Marks

Total : 120 Marks

STRUCTURE OF THE QUESTION PAPER

Q 1. All Questions are Compulsory.

- Q 2. Q 1. will consists of ten parts and each part will carry 1 Mark.
- Q 3. Q 2. to Q 16 will carry 3 Marks each.
- Q 4. Q 17 to Q 21 i.e. five questions each will be of 6 marks.
- Q 5. There will be no overall choice. There will be an internal choice in any three questions of 3 marks each and any two questions of 6 marks each. (Total of 5 internal Choices)
- Q6. Use of Calculator is not allowed.

Sr. No.	Topic	Q. Carrying 1- Marks	Q. Carrying 3- Marks	Q. Carrying 6- Marks	Total Marks
1.	Sequence & Series	2	2	*	08
2.	Permutations & Combinations	1	1	1	10
3.	Binomial Theorem	*	1	1	09
4.	Straight lines	1	2	*	07
5.	Conic Sections	1	1	1	10
6.	Three-dimensional Geometry	1	1	*	04
7.	Limits & Derivatives	2	2	1	14
8.	Mathematical Reasoning	1	2	*	07
9.	Statistics	*	1	1	09
10.	Probability	1	2	*	07
	Total	10	15	5	85

SYLLABUS

1. Sequence and series :

Sequence and Series, Arithmetic progression (A.P), arithmetic mean (A.M), Geometric Progression (G.P). general term of a G.P, sum of n terms of a G.P. Geometric mean (G.M), relation between A.M and G.M, Arithmetic/ Geometric series, infinite G.P. and its sum. Sum to n term of the special series $\sum n$, $\sum n^2$ and $\sum n^3$.

2. Permutations & Combinations

Fundamental principle of counting, Factorial n(n!) Permutations and combinations, derivation of formulae and their connections, simple applications.

3. Binomial Theorem :

History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle. General and middle term in binomial expansion, simple applications.

4. Straight Lines :

Brief recall of 2D from earlier classes. Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axes, point-slope form, slope-intercept form, two-point form, intercept form and normal form, General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.

5. Conic Sections :

Sections of a cone, circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations of a circle; General equation of a circle; Standard equations and simple properties of parabola, ellipse and hyperbola. Introduction of directrix of an ellipse and hyperbola.

6. Introduction to Three-dimensional Geometry

Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.

7. Limits and Derivatives :

Derivative introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

8. Mathematical Reasoning

Mathematically acceptable statements. Connecting words/phrases-consolidating the understanding of "if and only if (necessary and sufficient) condition", "implies", "and/or", "implied by" , "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words-difference between contradiction, converse and contrapositive.

9. Statistics:

Measure of dispersion: mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

10. Probability:

Random experiments: outcomes, sample spaces (set representation). Events: occurrence of events, 'not', 'and' & 'or' events, exhaustive events, mutually exclusive events. Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of 'not' 'and' & 'or' events.

11. BUSINESS ORGANISATION & MANAGEMENT **(Humanities Group)** **SEMESTER - I**

TIME : 2½ Hours

Theory : 55 Marks
I.A./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 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
FOUNDATION OF BUSINESS

UNIT 1. NATURE AND PURPOSE OF BUSINESS

- a) Concept and characteristics of business.
- b) Business-profession and employment- distinctive features.
- c) Objectives of business -economic, social and human.
- d) Business risks – nature and causes.
- e) Role of profit in business.
- f) A brief outline of the evolution of business activities in India.

UNIT 2. STRUCTURES OF BUSINESS

- a) Classification of business activities, industry and commerce.
- b) Industry and types: primary and secondary.
- c) E-commerce-meaning, opportunities and benefits, resources required for successful e-commerce implementation, security and safety for business transactions.
- d) Outsourcing of services: nature, need and types, financial services, advertising, courier services, customer support services.

UNIT 3. SERVICE SECTOR AND BUSINESS

- a) Banking: types of banks and functions of commercial banks.
- b) Insurance: principles, types, life and general fire and marine and Insurance of other risks, health insurance, fidelity insurance.
- c) Communication: postal, telecom.
- d) Warehousing : types and functions

PART- B
CORPORATE ORGANISATION, FINANCE AND TRADE

UNIT 4. FORMATION OF COMPANY

- a) Stages in the formation of the company
 - Promotion
 - Incorporation
 - Commencement of Business.

UNIT 5. INTERNAL TRADES

- a) Meaning and types,
- b) Wholesale trade – functions and services.
- c) Retail trade organization : meaning, types, features, merits and limitations

- itinerant and fixed shop
 - departmental store, chain shop, mail order business, franchise, consumers, co-operative store (including super bazaar).
- d) Direct marketing, tele-marketing, internal marketing.

SEMESTER - II

TIME : 3 Hours

Theory : 85 Marks
I.A./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 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 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. Answer limit of each question should be 250-300 words.

SYLLABUS
PART-A
FOUNDATION OF BUSINESS

UNIT 1. SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS

- a) Concept of the social responsibility.
- b) Case for social responsibility and human rights.
- c) Responsibility towards various interest groups, investors, employees, consumers, government and community in general.

UNIT 2. FORMS AND FORMATION OF BUSINESS ENTERPRISES

- a) Meaning, features, merits and limitations of following forms - sole proprietorship
 - Joint Hindu Family Business
 - Partnership-partnership deed (main clauses), types of partners and partnership formation, registration
 - Co-operative societies
 - Company: types of companies-private, public and deemed public privileges of private company.
- b) Choice of form of business enterprise.
- c) Factors to be considered for starting a business.
- d) Scope for setting up small business enterprises.

UNIT 3. SECTORAL ORGANIZATION OF BUSINESS

- a) Meaning, features, merits and limitations of following:-
 - Private sector, public sector and joint sector.
- b) Forms of public sectors enterprises :
 - Departmental undertaking
 - Starting co-operative.
 - Government company.
- c) Global enterprise (multi-national company)

PART -B
CORPORATE ORGANISATION, FINANCE AND TRADE

UNIT 4. SOURCES OF BUSINESS FINANCE

- a) Nature and Significance.
 - i) Sources of finance
 - ii) Equity and preference shares.

- iii) Debentures/Bonds-types: (secured, unsecured, convertible and non-convertible).
- iv) Retained profits.
- v) Public deposits
- vi) Loan from finance institutions.

b) International sources : GDR's, FDI

UNIT 5. EXTERNAL TRADES

- a) Nature and importance.
- b) Means of export promotion.
- c) Incentive available.
- d) Export- Import procedure and documentation.
- e) Nature and importance of export processing zones and economic zones.

12. BOOK KEEPING AND ACCOUNTANCY

(Humanities Group)

SEMESTER-I

Time = 2½ Hours

Theory : 55 Marks

I.A./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. Introduction to Accounting

- Accounting-meaning, objectives, Accounting as source of information, internal and external users of Accounting information and their needs, advantages and limitations of Accounting, Difference between book-keeping and Accountancy.
- Qualitative characteristics of accounting information-reliability, relevance, understandability and comparability.
- Basic Accounting terms-Asset, liability, capital, expense, income, expenditure, Revenue, Debtors, Creditors, Goods, Cost, Gain, Stock, Purchase, Sales, Loss, Profit, Voucher, Discount: Cash and Trade Discount, Transaction, Drawings, Equity.

Unit-II. Theory Base of Accounting

- Accounting Concepts: Entity Money Measurement, Going concern, Accounting period, Cost concept, Dual aspect, revenue Recognition (realisation), Matching, Accrual.
- Accounting Conventions-Full Disclosure, consistency, Conservation, Materiality, Objectives.
- Accounting Standards-meaning, nature, need and list of Indian accounting standards.
- Accounting Mechanism-Single entry and double entry.
- Accounting Cycle-from recording of business transaction to preparation of trial balance and final accounts.
- Bases of Accounting-Cash Basis, Accrual Basis.

Unit-III. Recording of Business Transactions

- Voucher and Transactions: Origin of Transactions-source documents and vouchers, Preparation of voucher; Accounting equation approach meaning and analysis of transaction using Accounting Equation; Rules of debit and credit.
- Recording of transactions: Books of original entry-Journal, Special Purpose Books: (i) Cash Book-Simple, Cash book with Bank column and petty cash book, (ii) Purchase Book, Sales Book, Purchase returns book, Sales returns book, Bill receivable book. Bills payable book; Ledger

meaning, utility, format; posting from journal and subsidiary books; Balancing of Accounts.

Unit-IV. Trial Balance and Rectification of Errors

- Trial-Balance; meaning, Objectives, advantages and methods of preparation.
- Errors: Types of errors; errors affecting Trial Balance; errors not affecting Trial Balance.
- Detection and Rectification of errors (one sided and two sided) use of suspense account.

SEMESTER-II

Time = 3 Hours
Marks

Theory : 85

I.A./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 each.
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 each.
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. Depreciation, Provisions and Reserves

- Depreciation: Meaning and need for charging depreciation, factors affecting depreciation, methods of depreciation-straight Line method, Written down value method (excluding change in method), Method of recording depreciation charging to asset account, creating provision for depreciation/accumulated depreciation account; Treatment of disposal of asset.
- Provision and Reserves: Meaning, importance, difference between provisions and reserves, types of reserves; Revenue reserve, capital Reserve, General reserve, Specific reserve and secret reserves.

Unit-II. Bank Reconciliation statement

Meaning, need and Preparation, Correct Cash Balance.

Unit-III. Accounting for bills of exchange Transaction

- Bills of exchange and Promissory Note: definition, feature, parties, specimen and distinction.
- Important Terms: Terms of bill, Concept of accommodation bill, Days of Grace, Date of Maturity, Bill at Sight, Bill after Date, Negotiation, Endorsement, Discounting of bill. Dishonor, Retirement.and renewal of a bill, insolvency of acceptor.
- Accounting treatment of bill transaction.

Unit: IV. Financial Statements

- Financial Statements: meaning and objectives.
- Distinction between Capital Expenditure and revenue expenditure
- Balance Sheet: Need, Grouping, marshaling of assets and liabilities, vertical presentation of Financial Statement.
- Adjustments in preparation of financial statements with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, managers commission.
- Preparation of trading and profit & Loss Account and Balance Sheet of Sole proprietorship.

Unit-V. Computer in Accounting

- Introduction to Computer and Accounting Information System (AIS)
- Applications of computers in accounting:- Automation of accounting process, designing accounting reports, MIS reporting data exchange with other information systems.
- Comparison of accounting processes in manual and computerized accounting, highlighting advantages and limitation of automation.
- Sourcing of accounting system: readymade and customized and tailor made accounting systems. Advantages and disadvantages of each option.

Unit-VI. Accounting and Database System

- Accounting and Database Management System
- Concept of Entity and Relationship: Entities and relationships in an Accounting System:

Designing and creating Simple Tables, Forms, Queries and Reports in the context of Accounting System.

13. POLITICAL SCIENCE SEMESTER-I

**Time = 2½ Hours
Marks**

Theory : 55

Internal Assessment/CCE : 25 Marks

Total : 80 Marks

STRUCTURE OF QUESTION PAPER

1. There will be three Sections 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. $1 \times 11 = 11$
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. $4 \times 6 = 24$
4. In Section C, there will be two questions with 100% internal choice Answer to each question will be of 3-4 pages. Each question will carry 10 marks. $10 \times 2 = 20$

All units of the syllabus should be given adequate representation in the question paper.

SYLLABUS

Part-A

FOUNDATIONS OF POLITICAL SCIENCE

Unit-I Meaning, scope and significance of Political Science.

- (a) Meaning of Political Science
- (b) Scope and significance of Political Science.
- (c) Relationship of political science with History, Economics, Sociology and Ethics.

Unit-II Citizen and his Rights and Duties.

- (a) Citizen and citizenship

- (b) Meaning of rights and duties.
- (c) Relation between rights and duties.

Unit-III Basic concepts

- (a) Law-meaning and its kinds.
- (b) Liberty-meaning, kinds and safeguards.
- (c) Equality-meaning, kinds, liberty and equality.
- (d) Justice

**Part-B
INDIAN CONSTITUTION AND GOVERNMENT**

Unit-IV Basic principles of the Indian Constitution.

- (a) Preamble and salient features of the Indian Constitution.

Unit-V Fundamental Rights and Directive Principles of State Policy.

- (a) Fundamental Rights-Nature and Kinds.
- (b) Directive Principles of State Policy-Importance and Sanctions behind them.
- (c) Distinction and relationship between Fundamental Rights and Directive principles.
- (d) Fundamental Duties.

SEMESTER-II

**Time = 3 Hours
Marks**

Theory : 85

Internal Assessment/CCE : 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. 1x15=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. 4x10=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. 10x3=30

All units of the syllabus should be given adequate representation in the question paper.

SYLLABUS

Part-A

Unit-I Society, State and Nation

- (a) State and its attributes.
- (b) Difference between State and Society, State and Government, State and Nation.
- (c) State and Associations.

Unit-II Classification of constitutions and Forms of Governments.

- (a) Constitution: Meaning and Types, Rigid and Flexible, Written and Unwritten.
- (b) Forms of Governments:
 - (i) Democratic And Authoritarian (Dictatorial)
 - (ii) Parliamentary and Presidential
 - (iii) Unitary and Federal

Unit-III Organs of Government

- (a) Executive
 - (i) Types of Executive
 - (ii) Functions.
- (b) Legislature
 - (i) Types of Legislature-Unicameral & Bicameral
 - (ii) Functions.
- (c) Judiciary
 - (i) Importance and Functions
 - (ii) Independence of the Judiciary

Part-B

Unit-IV Indian Federal System.

- (a) Nature of Indian Federation
- (b) Union-State relations: Legislative, Administrative and Financial.

Unit-V Union Government

- (a) The Union Executive-President, Prime Minister and Council of Ministers.

- (b) The Union Legislature.
- (c) District Administration

Unit-VI Indian Judicial System.

- (a) The Supreme Court
- (b) State High Court

14. SOCIOLOGY SEMESTER-I

Time = 2½ Hours

Theory : 55 Marks

I.A./CCE : 25

Marks

Total : 80 Marks

STRUCTURE OF THE 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

Unit-I: Sociology

- (a) Definition, scope and nature.
- (b) Relationship with other social sciences-History, Economics, Political Science.

Unit-II Society

Characteristics Human and Animal society, Man as social animal.

SEMESTER-II

Time = 2½ Hours

Theory : 85 Marks

I.A./CCE : 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-III Basic Concepts

Association, Community, Institution, Social groups-(Primary and Secondary)

Unit-IV Socialisation

As a process, Agencies- (family and school)

Unit-V Social Processes

Meaning and types, Co-operation, Accommodation, Assimilation, competition, Conflict.

15. PUBLIC ADMINISTRATION

(Humanities Group)

SEMESTER - I

Time = 2½ Hours

Theory : 55 Marks

I.A./CCE : 25

Marks

Total : 80 Marks

STRUCTURE OF THE 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 ELEMENTS OF PUBLIC ADMINISTRATION

Unit-I

- a) Meaning, Nature, Scope & Significance of Public Administration.
- b) Public Administration and other social sciences.
- c) Public Administration and Private Administration.

Unit-II

- a) Chief Executive kinds, functions.
- b) Staff and Line Agencies.
- c) Bureau and Board type.

INDIAN ADMINISTRATION

Unit-III

- a) Salient features of the Indian Administrative system.
- b) Fundamental Rights and Directive Principles of State Policy.

SEMESTER - II

**Time = 3 Hours
Marks**

Theory : 85

**I.A./CCE : 35 Marks
Total : 120 Marks**

STRUCTURE OF THE 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 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

Unit IV

- a) Department, Public Corporation and Public Company
- b) Public Administration and Legislature.
- c) Public Administration and Judiciary.

Unit-V

- a) Public Relations.
- b) Public Administration and citizen

Unit-VI

- a) Relations between the Union and the States.
- b) The State Executive- President, Vice-President, Prime Minister and the Council of Ministers.

Unit VII

- a) Organisation and working of the Ministry of Home Affairs.
- b) The State Executive and Council of Ministers.

Unit VIII

- a) Organisation and Functions of the Department of Education at the State Level.
- b) District Administration with special reference to the role of Deputy Commissioner.

16. ਧਰਮ

ਸਮੇਸਟਰ-I

ਸਮਾਂ: 2 ਘੰਟੇ 30 ਮਿੰਟ

ਲਿਖਤੀ ਪੇਪਰ :55 ਅੰਕ
ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ :25 ਅੰਕ
ਕੁੱਲ : 80 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ 12 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
 2. ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
 3. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਤਿੰਨ ਭਾਗਾਂ ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ। ਹਰ ਭਾਗ ਸਮੇਸਟਰ 1 ਦੇ ਸਾਰੇ ਪਾਠਕ੍ਰਮ ਤੇ ਅਧਾਰਿਤ ਹੋਵੇਗਾ।
- ਭਾਗ-I ਵਿੱਚ ਪੰਜ (5) ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ (1 ਤੋਂ 5) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਇਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਜਿਸ ਦਾ ਉੱਤਰ ਇੱਕ ਵਾਕ ਤੋਂ ਵੱਧ ਨਾ ਹੋਵੇ।
- ਭਾਗ-II ਵਿੱਚ ਚਾਰ (4) ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (6 ਤੋਂ 9) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਪੰਜ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਜਿਸ ਦਾ ਉੱਤਰ ਦੱਸ ਤੋਂ ਬਾਰਾਂ ਸੱਤਰਾਂ ਵਿੱਚ ਹੋਵੇਗਾ।
- ਭਾਗ-III ਵਿੱਚ ਤਿੰਨ (3) ਅੰਦਰੂਨੀ ਛੋਟ ਵਾਲੇ ਨਿਬੰਧਾਤਮਕ ਪ੍ਰਸ਼ਨ (10 ਤੋਂ 12) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੱਸ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਜਿਸ ਦਾ ਉੱਤਰ, ਉੱਤਰ -ਪੱਤਰੀ ਦੇ ਤਿੰਨ ਪੰਨਿਆਂ ਤੋਂ ਵੱਧ ਨਾ ਹੋਵੇ।

ਪਾਠ-ਕ੍ਰਮ

ਭਾਗ (ੳ)

ਪਵਿੱਤਰ ਵਿਅਕਤੀਆਂ ਦੀਆਂ ਜੀਵਨੀਆਂ

1. ਭਗਵਾਨ ਕ੍ਰਿਸ਼ਨ ਜੀ
2. ਭਗਵਾਨ ਮਹਾਂਵੀਰ ਜੀ
3. ਭਗਵਾਨ ਮਹਾਤਮਾ ਬੁੱਧ ਜੀ
4. ਸ਼੍ਰੀ ਸ਼ੰਕਰਾਚਾਰੀਆ ਜੀ
5. ਯਸ਼ੂ ਮਸੀਹ ਜੀ

ਭਾਗ (ਅ)

ਪਵਿੱਤਰ ਗ੍ਰੰਥਾਂ ਦਾ ਅਧਿਐਨ

ਹਿੰਦੂ ਧਰਮ, ਜੈਨ ਧਰਮ ਅਤੇ ਬੁੱਧ ਧਰਮ

1. ਮਹਾਂਭਾਰਤ ਦੇ ਚੋਣਵੇਂ ਅੰਸ਼
2. ਮੰਨ੍ਹ ਸਿਮਰਤੀ ਚੋਣਵੇਂ ਅੰਸ਼ਾਂ ਵਿੱਚ ਪ੍ਰਯੋਗ ਹੋਏ ਸੰਕਲਪ
3. ਵਿਸ਼ਨੂੰ ਸਿਮਰਤੀ
4. ਭਾਗਵਦ ਗੀਤਾ
5. ਉਪਨਿਸ਼ਦ

6. ਮਹਾਂਨਿਰਵਾਣ

7. ਤੰਤਰ

ਯਹੂਦੀ ਧਰਮ

1. ਪੁਰਾਣੀ ਬਾਈਬਲ ਦੇ ਚੋਣਵੇਂ ਅੰਸ਼

2. ਦਸ ਆਦੇਸ਼

--ਉਹੀ--

ਸਿੱਖ ਧਰਮ

1. ਸ਼੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ

2. ਸ਼੍ਰੀ ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ

3. ਸ਼੍ਰੀ ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ

ਚੋਣਵੀਆਂ ਰਚਨਾਵਾਂ ਵਿੱਚ ਪ੍ਰਮੁੱਖਤਾ ਸੰਕਲਪ

4. ਬਾਬਾ ਸ਼ੇਖ ਫਰੀਦ ਜੀ

5. ਭਗਤ ਕਬੀਰ ਜੀ

ਸਮੈਸਟਰ-II

ਸਮਾਂ: 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ :85 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ :35 ਅੰਕ

ਕੁੱਲ : 120 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ 19 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।

2. ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।

3. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਤਿੰਨ ਭਾਗਾਂ ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ। ਹਰ ਭਾਗ ਸਮੈਸਟਰ II ਦੇ ਸਾਰੇ ਪਾਠਕ੍ਰਮ ਤੇ ਅਧਾਰਿਤ ਹੋਵੇਗਾ।

ਭਾਗ-I ਵਿੱਚ ਦੱਸ (10) ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ (1 ਤੋਂ 10) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਇਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਜਿਸ ਦਾ ਉੱਤਰ ਇੱਕ ਵਾਕ ਤੋਂ ਵੱਧ ਨਾ ਹੋਵੇ।

ਭਾਗ-II ਵਿੱਚ ਛੇ (6) ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (11 ਤੋਂ 16) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਪੰਜ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਜਿਸ ਦਾ ਉੱਤਰ ਦੱਸ ਤੋਂ ਬਾਰਾਂ ਸਤਰਾਂ ਵਿੱਚ ਹੋਵੇਗਾ।

ਭਾਗ-III ਵਿੱਚ ਤਿੰਨ (3) ਅੰਦਰੂਨੀ ਛੋਟ ਵਾਲੇ ਤਿੰਨ (3) ਨਿਬੰਧਾਤਮਕ ਪ੍ਰਸ਼ਨ (17 ਤੋਂ 19) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਪੰਦਰਾਂ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਜਿਸ ਦਾ ਉੱਤਰ, ਉੱਤਰ-ਪੱਤਰੀ ਦੇ ਚਾਰ ਪੰਨਿਆਂ ਤੋਂ ਵੱਧ ਨਾ ਹੋਵੇ।

ਪਾਠ-ਕ੍ਰਮ

ਭਾਗ (ੳ)

ਪਵਿੱਤਰ ਵਿਅਕਤੀਆਂ ਦੀਆਂ ਜੀਵਨੀਆਂ

1. ਹਜ਼ਰਤ ਮੁਹੰਮਦ ਸਾਹਿਬ ਜੀ
2. ਭਗਤ ਕਬੀਰ ਜੀ
3. ਸ਼੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ
4. ਸ਼੍ਰੀ ਚੈਤੰਨਆਂ ਜੀ
5. ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ
6. ਸ਼੍ਰੀ ਰਾਮ ਕ੍ਰਿਸ਼ਨ ਜੀ

ਭਾਗ (ਅ)

ਪਵਿੱਤਰ ਗ੍ਰੰਥਾਂ ਦਾ ਅਧਿਐਨ

ਜੈਨ ਧਰਮ ਅਤੇ ਬੁੱਧ ਧਰਮ

1. ਅਚਾਰੰਗ-ਸੂਤਰ
2. ਕਪਲ ਸੂਤਰ
3. ਉੱਤਰ ਧਿਆਨ ਸੂਤਰ
4. ਸੰਨਯਾਤ ਨਿਕਾਇਆ
5. ਧਮਪਦ
6. ਮਧਿਅਮਿਕਾ

7. ਮਹਾਂ ਮੰਗਲ ਸੂਤਰ
8. ਬੁਧਚਰਿਆ ਅਵਤਾਰ
9. ਅਰਹਤ ਦਾ ਸੰਕਲਪ
10. ਅਸ਼ਟਾਰੀ ਮਾਰਗ
11. ਬੋਧੀ ਸਤਵ
12. ਸੰਘ
13. ਪੰਜ ਸਕੰਧ
14. ਨਿਰਵਾਣ

ਈਸਾਈ ਅਤੇ ਇਸਲਾਮ ਧਰਮ

1. ਨਵੀਂ ਬਾਈਬਲ ਦੇ ਚੋਣਵੇਂ ਅੰਸ਼
2. ਅੱਲ੍ਹਾ ਦਾ ਸੰਕਲਪ ਚੋਣਵੇਂ ਅੰਸ਼ਾਂ ਵਿੱਚ ਪ੍ਰਯੋਗ ਹੋਏ ਸੰਕਲਪ

ਸਿੱਖ ਧਰਮ

1. ਸ਼੍ਰੀ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ
2. ਸ਼੍ਰੀ ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ ਜੀ
3. ਭਗਤ ਰਵਿਦਾਸ ਜੀ ਚੋਣਵੀਆਂ ਰਚਨਾਵਾਂ ਵਿੱਚ ਪ੍ਰਯੁਕਤ ਸੰਕਲਪ
4. ਭਗਤ ਪੰਨਾ ਜੀ
5. ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ

17. MUSIC - VOCAL SEMESTER-I

**THEORY : 2¹/₂ Hrs.
PRACTICAL : 20 Minute
Marks**

**Theory : 30 Marks
Practicals : 40**

**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. $8 \times 1 = 8$
- 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. $4 \times 3 = 12$
- 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 ten (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. $5 \times 2 = 10$

SYLLABUS PART-A THEORY

- (i) Definition of the following with full explanation: Sangeet, Naad, Shruti, Swar, Saptak, Thaata, Raag, Arohi, Avrohi, Pakar, Alaap, Taan, Palta, Vadi, Samvadi, Anuvadi, Vivadi, Varn, Alankaar, Laya, (Madhya, Drut and Vilambit), Taal, Avartan, Sam, Taali, Khaali, Matra, Sathi, Antra, Sanchari, Abhog.
- (ii) Knowledge of Jatis of Raags.
- (iii) The life of sketches and contribution towards music by
 - (a) Pt. V.N. Bhat Khande

(b) Pt. Dalip Chander Bedi

PART-B

- (i) To write the notations of Khayals in Bhopali Raag.
- (ii) Notation of Teen Taal and Dadra along with Ikgun and Dugun Laykaries.
- (iii) Description of prescribed Raags.

PRACTICAL

- (a) Knowledge of Shudh, Komal and Tiver Swars.
- (b) Capability to demonstrate the following Taals with Bols and Matras by hand in Ikgun (Brabar) and Dugun layakaries: Teen Taal and Dadra.
- (c) One Drut Khyal with four Taans in Bhopali Raag
- (d) National Anthem.
- (e) Following Alankaars to be sung in the Swars in kafi:-
 - (i) Sa Re Ga Ma Pa Dha Ni, Sa Ni Dha Pa Ma Ga Re Sa
 - (ii) Sa, Re Re, Ga Ga, Ma Ma, Pa pa, Dha Dha, Ni Ni, Sa sa, Sa Sa, Ni Ni, Dha dha, Pa Pa, Ma Ma, Ga Ga, Re Re, Sa Sa.
 - (iii) Sa, Sa Re Sa, Sa Re Ga Re Sa, Sa Re Ga Ma Ga Re Sa, Sa Re Ga Ma Pa Ma Ga Re Sa, Sa Re Ga Ma Pa Dha Pa Ma Ga Re Sa, Sa Re Ga Ma Pa Dha Ni Pa Ma Ga Re Sa, Sa Re Ga MA Pa Dha Ni Sa Ni Dha Pa Ma Ga Re Sa.
 - (iv) Sa K e Ga, Re Ga MA, Ga Ma Pa, Ma Pa Dha, Pa Dha Ni, Dha Ni Sa, Sa Ni Dha, Nik Dha Pa, Dha Pa Ma, Pa Ma Ga, Ma Ga Re, Ge Re Sa.
- (f) Knowledge of the following:-
Strings used in Tanpura

PAPER-B

PRACTICAL MUSIC VOCAL

STRUCTURE OF QUESTION PAPER

There should not be more than Nine student in a batch of practical examination. The question paper will set by the examiner 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 choice of the Raags will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of one Raag from the prescribed Raags in the syllabus. The choice of the raag will be of the examiner. It will be for 4 minutes and will carry 10 marks.

3. Demonstration 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 5 marks.
5. Demonstration regarding Alankar/National Anthem/No Detai/ Raags. It will also be for 4 minutes and will carry 5 marks.

Note : Structure of practical question paper for Semester II will remain same as that of Semester I except the marks distribution will be change.

Q. No. – 1 & II = 15 marks

Q. No. – III to V = 10 marks

PRACTICAL

- (a) Capability to demonstrate the following Taals with Bols and Matras by hand in Ikgun (Brabar) and Dugun layakaries: Jhap Taal and Kaharva Taal.
- (b) One Drut Khyal with four Taans in Kalyan and Allhayia Bilawal Raags.
- (c) National Anthm.
- (d) To recognise Raags and Taals of the course.
- (e) Capability of demonstration two Matras (Dugun) and four Matras (Chougun) in one beat.
- (f) Knowledge of the following:-
 - i) Correct Posture (Mudra)
 - ii) Non-detail Raags, in terms of Arohi, Avrohi, Pakar and their definitions:
 - (a) Khamaj
 - (b) Kafi

SEMESTER-II

THEORY : 3 Hrs.

PRACTICAL : 20 Minutes

Theory : 40 Marks

Practicals : 60 Marks

CCE/Internal Assessment-20 Marks

Total : 120 Marks

STRUCTURE OF THE QUESTION PAPER (THEORY)

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. $10 \times 1 = 10$
- 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. $6 \times 3 = 18$
- 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. $6 \times 2 = 12$

SYLLABUS

Knowledge of the following:-

- a) Rules of Thaats and Raags and their comparison.
- b) Purvang and Utrang Raags.
- c) Ashrya and Janya Raags.
- ii) Life sketch of S. Sohan Singh and his contributions towards music.

PART-B

- (i) To write the notations of Khayals in Kalyan and Alahya Bilawal Raag.
- (ii) Notations of Jhap Taal, Kaharwa alongwith Ikgun and Dugun laykaries.
- (iii) Recognition of prescribed Raags from the given Swar-Sangaties.

PRACTICAL

1. Capability to demonstration the following Taals with Bols and Matras by hand in Ikgun and dugun lajakaris Jhap Tal and Kehrra Taal.
2. One Drut Khyal with four Taans in Kalyan and Allhayia Dilawal Raags.
3. National Anthem.
4. To recognize Raags and Taals of the course.
5. Capability of demonstration to Matras (Dugun) and four Matras (Chougan) in one beat.
6. Knowledge of the following :
 - (i) correct posture (Mudra)
 - (ii) Non Detail Raags Arohi, Avrohi, Pakar
 - (a) Khamaz
 - (b) Kafi

18. GURMAT SANGEET SEMESTER-I

THEORY : 2¹/₂ Hrs.
PRACTICAL : 20 Minutes

Theory : 30 Marks
Practicals : 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. $8 \times 1 = 8$

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. $4 \times 3 = 12$

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 ten (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. $5 \times 2 = 10$

SYLLABUS PART-A THEORY

1. Short Introduction of Gurmat Sangeet.
2. Introduction of instruments (Rabab, Saranda and Tabla) used in Gurmat Sangeet.
3. Definitions of the following :-
Sangeet, Naad, Shruti, Swar, Saptak, Thaata, Raag, Aroh, Avroh, Alankaar, Laya (Madhya, Drut, Vilambit), Taal, Avartan, Sam or Gur, Taali, Khalli, Matra, Sathai, Antra.
4. Life sketch and contribution towards music by Bhai Mardana.

PART-B

1. Description of prescribed Raag Bilawal.
2. Notations of prescribed Taals (Teen Taal, Dadra and Kehrava) Dugun and Chougun Laykaries.

PRACTICAL

1. Singing of Gurbani Shabad according to traditional style in prescribed Raag Bilawal and Taals.
2. Five Alankar (Sargam and Aakar) in each Raags-Bilawal and Kalyan.
3. Knowledge of prescribed Taals:-
Teen Taal, Dadra and Keharva.

PAPER-B

PRACTICAL GURMAT SANGEET

STRUCTURE OF QUESTION PAPER

There should not be more than 9 students in a batch of practical examination. The question paper will set by the examiner 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 Shabad Gayan in any one Raag out of the prescribed syllabus. The choice of the Raags will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of Shabad Gagyan in any one Raag out of the syllabus. The choice of the raag will be of done by the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration 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 5 marks.
5. Demonstration regarding Alankaar/National anthem/non detailed Raags, it will also be for 4 minutes and will carry 5 marks.

Note : Structure of practical question paper for Semester II will remain same as that of Semester I except the marks distribution will be change.

Q. No. – 1 & II = 15 marks

Q. No. – II1 to V = 10 marks

SEMESTER-II

THEORY : 3 Hrs.
PRACTICAL : 20 Minutes

Theory : 40 Marks
Practicals : 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. $10 \times 1 = 10$

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. $6 \times 3 = 18$

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. $6 \times 2 = 12$

SYLLABUS

Theory PART-A

1. Main rules of Shabad Gayan.
2. Names of main Raags of Guru Granth Sahib.
3. Definitions of the following:-
Taan, Vaadi, Samvadi, Anuvadi, Vivadi.
4. Life sketches and contributions towards Gurmat-Sangeet of the following:-
 - (i) Gian Singh Abtabad
 - (ii) Bhai Samund Singh

PART-B

- (i) Description of prescribed Raags -Kalyan and Asa.
- (ii) Recognition of prescribed Raags from given Swarsangities.
- (iii) Recognition of signs of Swarlipi of Bhatkhande.

PRACTICAL

1. Singing of Gurbani Shabad according to traditional style in prescribed Raags (Kalyan and Asa) and Taals.
2. Singing of Chkant and Pauri.
3. Knowledge of non detailed raagi (Bharav and Bhoopali) in terms of Arohi, Avrohi, Pakar and definition.

19. MUSIC - INSTRUMENTAL SEMESTER-I

THEORY : 2¹/₂ Hrs.

PRACTICAL : 20 Minutes

Theory : 30 Marks

Practicals : 40 Marks

CCE/Internal Assessment-10Marks

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. $8 \times 1 = 8$

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. $4 \times 3 = 12$

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 ten (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. $5 \times 2 = 10$

SYLLABUS

PART-A

THEORY

1. Definitions of the following:- Sangeet, Naad, Shruti, Sawar, Saptak, Thaata, Raag Arohi, Avrohi, Pakar, Alankaar, Laya (Vilambit, Mahadya and Drut) Taal, Avartan, Sam, Taali, Khaali, Matra, Sathai, Antra, Mizrab.

2. Knowledge of the Jatis of Raags.
3. Life sketches and contribution towards music of the following:-
 - (i) Pt. V.N. Bhatakhande
 - (ii) Ravi Shankar

PART-B

- (i) To write the notations of Drut Gats in prescribed Bhopali Raags.
- (ii) Description of prescribed Raags.
- (iii) Notation of Teen Taal and Dadra alongwith Ikgun, Dugun and Chougun Laykaries.

PAPER-B PRACTICAL MUSIC INSTRUMENTAL

STRUCTURE OF QUESTION PAPER

There should not be more than a student in a batch of practical examination. The question paper will set by the examiner 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 choice of the Raags will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of one Raag from the prescribed Raags in the syllabus. The choice of the raag will be of done by the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration 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 5 marks.
5. Demonstration regarding Alankar / National Anthem/Non Detail Raag. It will also be for 4 minutes and will carry 5 marks.

Note : Structure of practical question paper for Semester II will remain same as that of Semester I except the marks distribution will be change.

Q. No. – 1 & II = 15 marks

Q. No. – III to V = 10 marks

PRACTICAL

- (a) Knowledge of Shudha and Vikrit Swaras.
- (b) Capability to demonstrate the following Taals with Bols and Matras byhand in Ikgun (Brabar) and Dugun Laykeries-Teen Taal and Dadra.
- (c) One fast Gat with four toras in Bhopali Raag.
Knowledge of the following:-
 - (i) Strings used in your instruments
 - (ii) Correct posture (Mudra)

SEMESTER-II

THEORY : 3 Hrs.

PRACTICAL : 20 Minutes

Theory : 40 Marks

Practicals : 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 x 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 x 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 x 2 = 12

SYLLABUS

THEORY

PART-A

- (i) Definitions of the following:-

Taan, Tora, Vadi, Samvadi, Anuvadi, Varjit, Varna, Gat (Maseet-Khani and Razakhani), Chikari, Meend and Jhala,

- (ii) Knowledge of the following:
 - (a) Rules of Thaats and Raags and their comparison.
 - (b) Purvang and Uttrang Raags.
- (iii) Life sketch and contribution towards music by Ustad Vilayat Khan.

PART-B

- (i) To write the notations of Drut Gats in Kalyan and Alahya Bilawal Raag.
- (ii) Notations of Jhap Taal, Keharva alongwith Ikgun, Dugun and Chougun Laykaries.
- (iii) Recognition of prescribed Raags from the given Swarsangities.

PRACTICAL

- (a) Capability to demonstrate the following Taals with Bols and Matras by hand in Ikgun (Brabar) and Dugun Laykeries- Jhap Taal, Keharva.
- (b) One fast Gat with four toras in Kalyan and Alahya Bilawal.
- (c) Capability to demonstrate two Matras (Dugun) and four Matras (Chougun) in one beat.
- (d) To recognise Raags and Taals of your course.
- (e) Non-detailed Raags in terms of definition Arohi, Avrohi and Pakar.
 - (i) Khamaj
 - (ii) Deshkaar

**20. MUSIC - TABLA
SEMESTER-I**

THEORY : 2½ Hrs.
PRACTICAL : 20 Minutes
Marks

Theory : 30 Marks
Practicals : 40

Marks **CCE/Internal**

Assessment-10

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. $8 \times 1 = 8$
- 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. $4 \times 3 = 12$
- 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 ten (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. $5 \times 2 = 10$

SYLLABUS

PART-A THEORY

- (i) Definition of the following:-
Sangeet, Naad, Matra, Vibhag, Taal, Laya, Theka, Avartan, Sam, Taali, Khaali.
- (ii) (a) Short History of Tabla.
(b) Merits and demerits of Tabla Player.
- (iii) Biographical sketches.
(a) Ustad Ahmad Jaan Thirkva.
(b) Pt. Anokhe Lal

PART-B

- (i) Description and comparison of Teen Taal.
(ii) Recognition of prescribed Taals from the given Bols.
(iii) Two laggies in Kehrvaa and Dadra.

PRACTICAL

- (i) Systematic solo performance of the following Taals with Peshkar, Kayda, Palta, Tihai, Tukra, Relaa and Pakar: Teen Taal, Jhap Taal, Rupak Taal.
(ii) Two laggies in Dadra and Kehrvaa Taal.
(iii) To play simple Theka of the EkTaal.
(iv) Ability to play Tabla with Lehra.

SEMESTER-II

THEORY : 3 Hrs.

Marks

PRACTICAL : 20 Minutes

Marks

Theory : 40

Practicals : 60

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. $10 \times 1 = 10$
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. $6 \times 3 = 18$
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. $6 \times 2 = 12$

SYLLABUS

THEORY
PART-A

- (i) Definition of the following:-
Kayada, Laggi, Mukhra, Mohra.
- (ii) (a) Description of Tabla.
(b) Ten Varnas of Tabla.
(c) Principles of Tabla Accompaniment with vocalist and instrumentalist.
- (iii) Biographical sketches.
(a) Pt. Krishan Maharaj
(b) Ustaaad Alla Rakha.

PART-B

- (i) Description and comparison of the following:
Tilwara, JhapTaal, SulTaal.
- (ii) Notation of prescribed Taals alongwith Dugun and Chougun Laykpries.
- (ii) Notation of the following terms in Teentaal, Jhaptaal, Rupaktaal: One Kayda, two Paltas, one liela, one Tukra and one Tihai.

PRACTICAL

- (i) To play simple Theka on the following:-
Tilwara, SulTaal.
- (ii) Ability to produce different bois of Taal recited by the examiner.
- (iii) Padhant of Ikgun, Dugun and Chougun Laykaries of prescribed Taals and on tabla.

21. DANCE

SEMESTER-I

THEORY : 2½ Hrs.

Marks

PRACTICAL : 20 Minutes

Marks

Theory : 30

Practicals : 40

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. $8 \times 1 = 8$

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

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 ten (5) marks each and their answer should not exceed more than two pages of the Answer Sheet. $5 \times 2 = 10$

SYLLABUS

PART-A

- I. Definition of dance, its importance in human life.
- II. Knowledge of basic technical terms used in Kathak dance such as Theka, Laya, Taal, Tatkar, That, Amad, Salami, Tihai.
- III. Critical study of Natya and Naritya.
- IV. Comparative study of the folk and classical dance.

PART-B

- I. Definition and description of prescribed Taals.
- II. Recognition of Taals through some Bols.

PRACTICAL STRUCTURE OF QUESTION PAPER

1. A systematic dance performance in any Taal from the prescribed syllabus as per choice of the student. It will be for 6 minutes and shall carry 10 marks.
 2. A systematic dance performance in any Taal from the prescribed syllabus as per choice of the examiner. It will be for 4 minutes and shall carry 10 marks.
 3. Demonstration/Performance of any one Taal in Ekgun and Dugun Layakaris. It will be for 4 minutes and carry 10 marks.
 4. Student will be given some bols of the prescribed Talas. He/She will have to recognise two out of these. It will be of 2 minutes and will carry 5 marks.
 5. Demonstration/Performance of any two Gat nikar and palta of Tatkar. It will be for 4 minutes and carry 5 marks.
- I. Systematic dance performance of the following Taals on the material given below:-
 - A) Teen Taal : (16 Matras)
 - One Thaat
 - One Amad
 - One Salami
 - Two Toras
 - One Kavita
 - One Tihai
 - One Paran
 - Two Paltas
 - II. Advance Tatkar in single, Dugun and Chougun Laykaries in the Teen Taal.
 - III. Two Gat nikas in Teen Taal.

SEMESTER-II

**THEORY : 3 Hrs.
Marks**

**PRACTICAL : 20 Minutes
Marks**

Theory : 40

Practicals : 60

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

PART-A

- I. Knowledge of Taandva.
- II. Knowledge of the following: Asnyukta hast Mudras, their function in dance-Pataka, Tripataka, Ardhapataka, Mayur, Ardhachandra, Aral Shuktund, Mushti, Shikhar, Kapittha Rallamukh, Suchi, Chanderkala, Padmakosh, Sarpshrish.
- III. Short account of Raags and their importance in dance.
- IV. Short history of Kathak-dance.
- V. Survey and essential characteristics of Kathak dance.

PART-B

- I. Notation of all material prescribed in practical course.
- II. Notation of prescribed Taals in single, Dugun and Chougun Laykeries.

PRACTICAL

- I. Systematic dance performance of the following Taals on the material given below:-
 - B) Taal Rupak (7 Matras)
 - One Thaat
 - One Amad
 - One Salami
 - One Tihai
 - One Tukra
 - One Paltai
- II. Advance Tatkar in signie, Dugun and Chougun Laykaries in the Rupak Taal.
- III. Description of Dadra and Kehrva Taals.
Recognition of prescribed Taals through some Bol.

22. PHILOSOPHY SEMESTER-I

Time :- 2½ hrs

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

STRUCTURE OF THE 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

All units of the syllabus should be given adequate representation in the question paper.

SYLLABUS

- Unit-I (a) Logic: Definition, Meaning and scope of Logic. The place of Logic as a Science. Relationship of Logic as compared to that of Psychology and Grammar. Uses of studying Logic.
- (b) Fundamental Laws of thought
- (c) Terms: Their meaning, Connotation and Denotation.
- Unit-II Logical Definition: Its rules. Fallacies arising out of violation of rules. Limits of logical definition. Practical exercises in fallacies of logical definitions.
- Unit-III (a) Induction, its meaning and definition
Difference between Induction and Deduction.
- (b) Kinds of Induction: Proper and Improper Induction. Scientific Induction, Perfect Induction, Simple Enumeration and Analogy.
- (c) Formal Grounds of Induction: Law of Causation, Law of uniformity of nature-various uniformities.
- Unit-IV Material Grounds of Induction: Observation: Testimony
Experiment: Advantages of Experiment over Observation and advantages of Observation over Experiment. Regulative Principles of Observation and Experiment.

SEMESTER-II

Time :- 3 hrs

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

STRUCTURE OF THE 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. 15x1=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. 10x4=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

All units of the syllabus should be given adequate representation in the question paper.

SYLLABUS

- Unit-I Elementary Philosophy: Meaning, Definition and uses of Philosophy.
- Unit-II Branches of Philosophy: Metaphysics, Epistemology, Logic, Aesthetics and Psychology.
- Unit-III Relation of Philosophy to science and Religion.
- Unit-IV Dharma, Artha, Karma, Moksha, Varnashrama, Doctrine of Karma according to Indian Philosophy.

23. EDUCATION SEMESTER-I

Time :- 2½ hrs

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

STRUCTURE OF THE 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. $2 \times 10 = 20$

All units of the syllabus should be given adequate representation in the question paper.

SYLLABUS

- Unit-I** Principles of Education, Meaning and concept of Education. Needs for Education.
- Unit-II** Aims of Education: Industrial aim, Social aim, Vocational aim and Cultural aim.
- Unit-III** Curriculum its meaning and importance, Defects in the Traditional Curriculam. Co-curricular activities and their importance in Education.
- Unit-IV** Agencies of Education-Home, School, Community.

SEMESTER-II

Time :- 3 hrs

Theory : 85 Marks

CCE/I. A.:35 Marks

Total : 120 Marks

STRUCTURE OF THE 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. 15x1=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. 10x4=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 carry10 marks. 3x10=30

All units of the syllabus should be given adequate representation in the question paper.

SYLLABUS

- Unit-I Organisations of Education: Directorate of Education-D.P.I. and State Board of
- Unit-II Education. Problems of Education:- Adult Education, Environment Education.
- Unit-III Population Education
- Unit-IV Women Education
- Unit-V Special Education

24. GEOGRAPHY

SEMESTER-I

Time : 2½ hrs

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

STRUCTURE OF THE QUESTION PAPER

There will be 24 questions in all. All of the question will be compulsory.

1. Question no. from 1 to 10 will carry 1 mark each. Answer of each question should be in one word or one line. $1 \times 10 = 10$
2. Question no. from 11 to 15 will carry 2 marks each. Answer of each question should be in about 20-25 words. $2 \times 5 = 10$
3. Question no. 16 to 21 will carry 3 marks each. Answer of each question should be in about 50-65 words. $3 \times 5 = 15$
4. Question no. 21 & 24 will carry 5 marks each. Answer of each question should be in about 160-175 words. There will be 100% internal choice in these questions. The paper-setter should not set more than one such question from one chapter. $5 \times 4 = 20$

SYLLABUS

Unit-I Lithosphere

- Solar system**-Earth, its place in the solar system, its shape and size, its movements and their effects, latitude and longitude, time-local and standard: International date line,
- Rocks**-Their origin, classification and characteristics.
- Agents of change**-weathering and denudation: work of river, glacier, wind, underground water and sea.

PRACTICAL MAP WORK

Maps : Necessity of maps, their classification.

Scale of Map : Representative fraction, linear scale (Primary and secondary division), its use in preparing maps, reduction and enlargement of the map through square method.

Direction: Finding direction in the field and on the map, orientation of local map in the field, methods of showing direction on the map.

SEMESTER-II

Time : 3 hrs

**Theory : 65 Marks
CCE/I. A.:30 Marks
Practical : 25 Marks**

Total : 120

Marks

STRUCTURE OF THE QUESTION PAPER

There will be 29 questions in all. All the question will be compulsory.

1. Question no. 1 to 10 will carry 1 mark each. Answer of each question should be in about one line. 1 x 10 = 10
2. Question no. 11 to 20 will carry 2 marks each. Answer of each question should be in about 20-25 words. 2 x 10 = 20
3. Question no. 21 to 25 will carry 3 marks each. Answer of each question should be in about 50-60 words. 5 x 3 = 15
4. Question No. from 26 & 29 will carry 5 marks each. Answer of each question should be in about 160-175 words. There will be 100% internal choice in these questions. The paper-setter should not set more than one such question from one chapter. 5 x 4 = 20

SYLLABUS

Unit-I Lithosphere

- I. **Major landforms-** Mountains, plateaus and plains, origin, classification and their significance to man.
- II. **Earthquake-**Causes and effects; distribution, Volcanoes-Causes and effects of volcanic activity, volcanic forms, distribution of volcanoes.

Unit: II Atmosphere

- (i) **Atmosphere-** extent, layers and composition, temperature, factors controlling temperature, horizontal and vertical distribution, range of temperature. Pressure of the atmosphere-factors controlling pressure, horizontal and vertical distribution.
- (ii) **Winds-planetary-** seasonal and local, shifting of wind belts and its impact, cyclones and anticyclones.
- (iii) **Humidity and Precipitation-**Relative humidity and specific humidity, Precipitation types. Rainfall types and distribution.

Unit: III Hydrosphere

Oceans- ocean basins and sub-marine relief, ocean water and their circulations, temperature, salinity, waves, currents and tides.

- Note:-
- (a) Examples as far as possible should be given from India.
 - (b) Answer should be illustrated with maps and diagrams.

PRACTICAL MAP WORK

Atlas Map symbols: Identification or recognition of symbols or conventional signs used in all and topographic sheets of Survey of India, signs and symbols used in weather maps.

Methods of showing relief on maps: contours, interpolation of contours identification, simple relief features from the contours on a map, drawing of cross section.

Observing and recording of various weather elements with the help of the following instruments:-

- (a) Six's Maximum and minimum Thermometer
- (b) Aneroid Barometer
- (c) Wind Vane
- (d) Wet and Dry Thermometer
- (e) Rain Gauge
- (f) Drawing of Isotherms, Isobars and isohyets.

STRUCTURE OF QUESTION PAPER PRACTICAL (MAP WORK)

Time : 3 hrs.

Marks : 25

1. Examination in map work will be conducted by the practical examiner in batches of not more than 20 candidates each. The practical examiner will set the question papers on the spot and will also evaluate the answer sheets.
2. The question paper will consists of 3 questions with 100% internal choice. Each question will carry 6 marks.
3. Viva voce and record of exercises done during the session will carry 3 & 4 marks respectively.
4. Main objective of the paper is to develop the skill amongst the students from different aspects of map making. Therefore question paper shall be based on the syllabus for practicals (Map Work) for Semester- I and Semester-II.

Note : Practical examination will be conducted in Semester-II only.

25. DEFENCE STUDIES SEMESTER -I

Time : 2½ hrs

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

STRUCTURE OF QUESTIONS PAPER (THEORY)

1. There will be 13 Questions in all.
2. All questions are compulsory.
3. There will be 5 questions of one Mark each & these questions will be objective type. $5 \times 1 = 5$
4. There will be 6 questions of 5 Marks each. At least 3 questions from each group. $6 \times 5 = 30$
5. There will be 2 questions of 10 Marks each with internal choice & one question from each group. $2 \times 10 = 20$

SYLLABUS

GROUP-A

1. Definition and scope of Defence Studies, its relationship with other social and Physical Sciences.
2. Warfare: Evolution of warfare since primitive time to modern times. Definition and concepts of war, origin of war, Feudal war, Dynastic war, People's war, Modern war.

GROUP-B

- (a) Give Strategic importance of following places:
 - (i) Suez-canal
 - (ii) Panama Canal
 - (iii) Straits of Malacca
- (b) Defence Potential of india;
 - (i) Strategic location frontiers of India;
 - (ii) Boundaries;

PAPER-II

VIVA-VOCE

Note: The students will give a lecture in presence of audience for 5-8 minutes on the topic of his own choice out of the topics given in the syllabus.

1. Lecture: Each student will be required to give a talk (and not paper reading) for 5-8 minutes on any one of the under-mentioned topic:
 - (i) Suez Canal
 - (ii) Geo-strategic location of India
 - (iii) Modern War

2. Interview: The examiner may ask the candidate any question from topic mentioned in the list of topics for lecture.
3. **Note :** Practical Examination will be conducted at the end of Semester-II.

SEMESTER-II

Time : 3 Hrs

**Oral Paper (viva voce)
Marks**

Time : 3 Hrs

Theory 65 : Marks

25 :

Internal Assessment/CCE 30 : Marks

Total : 120 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

1. There will be 19 Questions in all.
2. All questions are compulsory.
3. There will be 10 questions of one Mark each & these questions will be objective type. 10×1=10
4. There will be 7 questions of 5 Marks each. At least 3 questions from each group. 7×5=35
5. There will be 2 questions of 10 Marks each with internal choice & one question from each group. 2×10=20

SYLLABUS

GROUP-A

2. Physical and Cultural factors determining the defence potential.
4. Psychological Aspects of War:-
 - (i) Morale: Concept and definition, factors, controlling to morale and importance of morale.
 - (ii) Discipline: Definition, importance factors contributing to discipline, relation of discipline to morale.
 - (iii) Leadership: Definition, Importance, Types and Qualities of leadership.
 - (iv) Fear and Panic: Causes and effects of fear and panic, methods of recovery from fear and panic.
 - (v) Man Management: What is man management and its purpose.

GROUP-B

- (a) Give Strategic importance of following places:
 - (iv) Korakoram-Sinking Highway.
 - (v) Laddakh.

- (vi) Kathmandu.
- (vii) Kodari Highway.
- (viii) Chumbi Valley.
- (b) Defence Potential of India;
 - (iii) India's strategic Mineral Commodities;
 - (iv) Industrial potentials, transport and communication in India;

PAPER-II VIVA-VOCE

Note: In viva-voce the lecture will be of 15 marks. The students will give a lecture in presences of audience for 5-8 minutes on the topic of his own choice out of the topics given in the syllabus.

1. Lecture: Each student will be required to give a talk (and not paper reading) for 5-8 minutes on any one of the under-mentioned topic
 - (i) Morale (ii) Defence Studies (iii) Korakoram-Sinking Highway
 - (iv) Leadership
8. Interview : The examiner may ask the candidate any question from topic mentioned in the list of topics for lecture. Interview will be of 10 marks.

Note : Practical Examination by the school will be conducted at the end of Semester-II from the whole of the syllabus (Semester-I & Semester-II) meant for practical (Viva-Voce).

26. PSYCHOLOGY SEMESTER -I

Time : 2 ½ hrs.

**Theory : 55 marks
I.A./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

PART-A

Unit-I Psychology as a Science of Behaviour:

Nature of psychology, Importance of psychology in life. Its concept and Definition-Fields of Psychology-Relationship of Psychology with Physiology, Sociology and Education.

Unit-II Methods of Psychology:

Introduction, observation, Experimental and Case History Methods.

Unit-III Psychological Basis of Behaviour:

Response Mechanism: Meaning, Definition and Parts, i.e. Receptors, Effectors and Connections- Basic Unit of Nervous System: The Neurons and its kinds-Nerve Impulse and Reflex Action-Classification of Receptors according to Position and Function. Major Parts of Brain and their functions-The structure and function of Spinal Cord-The structure and function of Autonomic Nervous System, Endocrine glands and the effect of their Harmones on Behaviour.

Unit-IV Sensory Processes

Definition, Meaning, Threshold and characteristics of Sensations-kinds of sensations with special reference to visual sensation.

-Eye as a Sense Organ-Colour Blindness and After Images.

EXPERIMENTS

1. Negative After image
2. Mapping of Sensory Spots in the skin
3. Mapping of blind spot

SEMESTER -II

Time : 3 hrs.

Theory : 65 marks
Practical: 25 marks
I.A./CCE :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 PART-B

Unit-V: Perception: Nature and Meaning. Difference between Illusions and Hallucinations.

Unit-VI: Attention: Meaning, Definition and characteristics of Attention-Factors affecting attention-span, Division and Distraction of Attention.

Unit-VII: Learning: Meaning, Definition and views regarding Nature of Learning- Characteristics of Learning-Methods and theories of Learning: Learning through trial and error, Insight theory of Learning. Laws of learning.

Unit-VIII: Memory: Meaning, Definition and characteristics of Memory-Kinds of Memory-Processes of Memory: Recognition, Retention, Recall, Memorization-Forgetting and its Causes.

EXPERIMENTS

4. Span of Attention
5. Mirror Drawing Experiment
6. Retention by Recall
7. Immediate Memory Span
8. Division of Attention

Note : Practical Examination (Semester-I & II) shall be conducted at the end of Semester-II.

27. HOME SCIENCE

SEMESTER -I

Time : 2½ Hours

Theory 30 : Marks
Practical 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

HOME MANAGEMENT

- (i) First question will be objective type With 10 Sub Questions of 1/2 Mark each.
10x1/2=5 Marks
- (ii) Next four questions (2-5) 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. Answer should be in 150-200 words.
5 Marks.

SECTION -B

CLOTHING & TEXTILES

- (iv) In this section first question (Q. No. 7) will be objective type With 6 sub questions of 1/2 Mark each.
6x1/2=3 Marks
 - (v) Next three questions (Q. No. 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 (Q. No. 11) will be 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 or Fill in the blank or True/ False or multiple choice type.
 5. The questions should be strictly from the prescribed syllabus subject to above mentioned guidelines.

SYLLABUS (THEORY)

SECTION-A

(HOME MANAGEMENT)

- 1. Introduction to Home Management**
Meaning of Home Management and its Role
- 2. Basis for Management**
 - (i) Values, goals and standards
 - (ii) Small family norms
 - (iii) Resources-Human and Material
- 3. Management Process**
Planning, Organising, Implementing
Role of decision making in management process
- 4. Qualities & functions of a good Manager.**

SECTION-B (CLOTHING AND TEXTILES)

Laundry

1. Kinds of Fibre: cotton, linen, silk, wool, nylon-their sources, structure and properties.
2. Necessary equipment for laundry.

Clothing

1. Equipment and appliances used in sewing, sewing machine and its care.
2. Study of body measurements.

PRACTICAL STRUCTURE OF QUESTION PAPER (PRACTICAL)

Time : 3 Hours

Marks : 40

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 :

1. Viva Voce, Notebook & Record 5 Marks

Section-A (Home Management)

2. Any one practical 15 Marks

Section-B (Clothing & Textiles)

3. Any one practical from clothing 10 Marks

4. Any one Practical from Laundry 10 Marks

SYLLABUS (PRACTICAL)

SECTION-A

(HOME MANAGEMENT)

1. Prepare a list of goals of your family & yourself indicating priorities.
2. Give suggestions for improving the standard of living of your family.
3. Simple study of operation, use and care of common household gadgets. Kerosene stove, gas-stove, oven (electric), electric iron and heater.
4. Floor cleaning.

SECTION-B

(CLOTHING AND TEXTILES)

Clothing

1. Knowledge of basic stitches such as tacking, running stitch, hemming, back stitch, loop, button hole stitch.
2. Basic embroidery stitches (minimum five) and making embroidery article.
3. Crochet work-Make an album with five different crochet designs.

Laundry

1. Simple household tests of textile fabrics.
2. Laundry of Cotton, woolen and synthetic garments like Salvar, Kameez.

SEMESTER -II

Time : 3 Hours

Theory 40 : Marks

Practical 60 :

Marks

CCE/Int. Asst.-20

Marks

Total : 120 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

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

SECTION-A

HOME MANAGEMENT

- (i) First question will be objective type with 10 Sub Questions of $\frac{1}{2}$ Mark each. $10 \times \frac{1}{2} = 5$ Marks.

- (ii) Next (Q. No. 2 to 4) questions will be very short answer type carrying two marks each with specific answer. Answer should be approximately in 20-30 words. $3 \times 2 = 6$ Marks
- (iii) Next two questions (Q. No. 5 to 6) will be Short answer type carrying 3 Marks each. Answer should be in approximately 60-80 words each. $2 \times 3 = 6$ Marks
- (iv) Next question (Q. No. 7) will be long answer type of five marks with 100% internal choice in one question. Answer should be in 150-200 Words each. 5 Marks

SECTION -B
CLOTHING & TEXTILES

- (v) In this section first question (Q. No. 8) will be objective type (With 6 sub questions of $1/2$ Mark each) $6 \times 1/2 = 3$ Marks
- (vi) Next two questions (Q. No. 9-10) will be very short answer type carrying two marks each with specific answer. Answer should be is approximately 20-30 words each. $2 \times 2 = 4$ Marks
- (vii) Next two questions (Q. No. 11-12) will be of 3 Marks each. $2 \times 3 = 6$ Marks
- (viii) Last question (Q. No. 13) will be long answer type of 5 marks with 100 % internal choice. Answer should be in 150-200 words. $1 \times 5 = 5$ 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

(HOME MANAGEMENT)

- 1. Human Resources**
- (i) Knowledge
- (ii) Skill and abilities

- (iii) Time as a resource for occupational activity and leisure-utilisation of time in Home management.
- (iv) Utilisation of Human energy
 - (a) Energy involved in household activities
 - (b) Fatigue - Physical and Psychological
 - (c) Work simplification-meaning and method

2. Material Resources

Equipment in the home: (Kitchen and general)

- (i) Selection - Design, use and cost
- (ii) Operation-Safety and method of operation
- (iii) Cleaning and Care:
 - (a) Common household cooking and serving utensils
 - (b) Electrical appliances
 - (c) Gas appliances

3. Work Organisation

- (i) Maintenance and care of the Home
- (ii) Daily, weekly and periodical dusting and cleaning
- (iii) Polishing of floor, furniture and equipment
- (iv) Cleaning for festivals and special occasions
- (v) Disinfection and pest control

4. The Family Budget

- (i) Definition and types of budget
- (ii) Main items of family budget
 - (a) Food, clothing and housing
 - (b) Education, transport, health care and entertainment
 - (c) Allocation of money for the above
 - (d) Expenditure-Maintenance of records
 - (e) Need for saving - Types and methods of saving and investment

SECTION-B (CLOTHING AND TEXTILES)

Laundry

1. Preliminary preparation for washing clothes, sorting, mending and removal of stains.
2. Soaps and other supplies used in washing.
3. Washing and finishing of garments made of cotton, silk, wool, synthetic fibres.

- Care & storage of clothing for the family.

Clothing

- Selection and care of clothing for the family.
- Clothing for children (pre-school & school going) with emphasis on comfort, convenience and meeting the needs of growth.

STRUCTURE OF QUESTION 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 (Home Management)

- | | | |
|----|------------------------------|----------|
| 1. | Viva Voce, Notebook & Record | 5 Marks |
| 2. | Any one Major Practical | 10 Marks |
| 3. | Any one Minor Practical | 5 Marks |

Section-B (Clothing & Textiles)

- | | | |
|----|---------------------------------------|----------|
| 4. | Any one Major Practical from clothing | 20 Marks |
| 5. | Any one Minor Practical from Clothing | 10 Marks |
| 6. | Any one Practical from Laundry | 10 Marks |

SYLLABUS (PRACTICAL)

SECTION-A (HOME MANAGEMENT)

- Prepare a list of activities, you perform during a week. Evaluate the utilisation of time.
- Prepare a list of minimum equipment needed for a family of four members, calculate cost.
- Daily and weekly cleaning of rooms, furniture; cleaning and polishing of the following:
Brass, silver, iron, aluminium and glass.
- Study of the amount spent on the main items of expenditure. Work out allocation on different items of expenditure.
- Study methods of saving in your family and opening and maintaining Bank Accounts.

SECTION-B (CLOTHING AND TEXTILES)

Clothing

- Flat seam, run and fell seam and French seam.

2. Placket opening-one piece & two piece.
3. Drafting and stitching of Jangia and Jhabla.

Laundry

1. Removal of stains-Tea, Ink, Curry and Blood.
2. Laundry of Cotton, woolen and Synthetic garments like -Blouse, Petticot, Child's Knicker and Shirt.

28. ਮਾਡਲਿੰਗ ਅਤੇ ਮੂਰਤੀਕਲਾ (ਬੁੱਤਕਾਰੀ)

ਸਮਾਂ : 4 ਘੰਟੇ

ਸਮੇਸਟਰ-I

ਕੁੱਲ ਅੰਕ : 80

ਭਾਗ-I

32 ਅੰਕ

ਕਲਪਨਾਮਈ ਮੂਰਤੀਕਲਾ (Imaginative Study)

ਆਪਣੀ ਕਲਪਨਾ ਸ਼ਕਤੀ ਦੁਆਰਾ ਹੇਠ ਲਿਖੇ ਵਿਸ਼ਿਆਂ ਤੇ ਮਿੱਟੀ ਨਾਲ ਚਿੱਤਰ ਬਣਾਉਣੇ :-

ਫੁੱਲ, ਪੱਤੇ ਅਤੇ ਪੰਛੀ।

ਸਮਾਂ : 4 ਘੰਟੇ

ਭਾਗ-II

32 ਅੰਕ

ਵਿਜ਼ੂਅਲ ਸਟੱਡੀ (Visual Study)

ਮਨੁੱਖੀ ਸਰੀਰਕ ਅੰਗ ਹੱਥ, ਪੈਰ, ਚਿਹਰਾ ਅਤ। ਸਿਰ ਦੀ ਸਟੱਡੀ ਕਰਨਾ।

ਭਾਗ-III

16 ਅੰਕ

ਘੱਟੋ-ਘੱਟ ਅੱਠ ਆਈਟਮਾਂ ਇਸ ਸਮੇਸਟਰ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਜਾਣ। ਹਰ ਆਈਟਮ ਦੇ 2 ਅੰਕ ਹਨ।

ਨੋਟ : ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਰੈਕਟੀਕਲ ਵਿਸ਼ਾ ਹੈ ਜੋ ਕਿ ਪ੍ਰੈਕਟੀਕਲ ਪ੍ਰੀਖਿਅਕ ਵਲੋਂ ਲਿਆ ਜਾਵੇਗਾ।

ਸਮਾਂ : 4 ਘੰਟੇ

ਸਮੇਸਟਰ-II

ਕੁੱਲ ਅੰਕ : 120

ਭਾਗ-I

45 ਅੰਕ

ਕਲਪਨਾਮਈ ਮੂਰਤੀ ਕਲਾ (Imaginative Study)

ਆਪਣੀ ਸਿਮਰਣ ਸ਼ਕਤੀ ਦੁਆਰਾ ਪਸ਼ੂ, ਜਾਨਵਰ ਅਤੇ ਮਨੁੱਖੀ ਆਕਾਰਾਂ ਦੇ ਚਿੱਤਰ ਮਿੱਟੀ ਨਾਲ ਬਣਾਉਣਾ।

ਭਾਗ-II

45 ਅੰਕ

ਵਿਜ਼ੂਅਲ ਸਟੱਡੀ (Visual Study)

ਮਨੁੱਖੀ ਸਰੀਰਕ ਅੰਗ ਹੱਥ, ਪੈਰ, ਚਿਹਰਾ, ਸਿਰ ਦੀ ਸਟੱਡੀ ਕਰਨਾ।

ਭਾਗ-III

30 ਅੰਕ

ਘੱਟੋ-ਘੱਟ ਬਾਰਾਂ ਆਈਟਮਾਂ ਇਸ ਸਮੇਸਟਰ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਜਾਣ। ਹਰ ਆਈਟਮ ਦੇ $2\frac{1}{2}$ ਅੰਕ ਹਨ।

ਨੋਟ : ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਰੈਕਟੀਕਲ ਵਿਸ਼ਾ ਹੈ ਜੋ ਕਿ ਪ੍ਰੈਕਟੀਕਲ ਪ੍ਰੀਖਿਅਕ ਵਲੋਂ ਲਿਆ ਜਾਵੇਗਾ।

29. ਜਿਊਮੈਟਰੀਕਲ ਪਰਾਸਪੈਕਟਿਵ, ਆਰਕੀਟੈਕਚਰ ਡਰਾਇੰਗ

ਸਮੇਸਟਰ-I

ਸਮਾਂ : 4 ਘੰਟੇ

ਥਿਊਰੀ-55 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 25 ਅੰਕ

ਕੁੱਲ : 80 ਅੰਕ

ਭਾਗ-I

- ੳ) ਅੰਤਰੀ ਅਤੇ ਬਾਹਰੀ ਆਕਾਰ () ਤਿਕੋਣਾਂ, ਵਰਗ, ਸਮਾਨਾਂਤਰ, ਚਤੁਰਭੁਜ, ਸਮ ਪੰਜ ਭੁਜ, ਛੇ ਭੁਜ ਅਤੇ ਅੱਠ ਭੁਜ ਦੇ ਪ੍ਰਸ਼ਨ ਅੰਤਰੀ ਅਤੇ ਬਾਹਰੀ ਆਕਾਰਾਂ ਵਿੱਚ ਬਣਾਉਣੇ। ਅੰਕ ($2 \times 8 = 16$)
- ਅ) ਤਿਕੋਣਾਂ, ਆਇਤਾਂ ਅਤੇ ਚੱਕਰਾਂ ਦੇ ਖੇਤਰਫਲ ਦੇ ਬਰਾਬਰ ਆਕਾਰ ਬਣਾਉਣੇ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਪੇਪਰ ਦਾ $\frac{1}{4}$ ਭਾਗ (35 ਸੈਂ.ਮੀ. \times 25 ਸੈਂ.ਮੀ.)

ਠੋਸ ਜਿਊਮੈਟਰੀ (Solid Geometry)

ਅੰਕ 16

ਘਣ ਖੇਤਰ, ਮਿਨਾਰ, ਗੋਲਾ, ਬੇਲਣ, ਸ਼ੰਕੂ ਦੇ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਲੇਟਵੀਂ ਧਰਾਤਲ (Horizontal Plan) ਅਤੇ ਖੜੀ ਧਰਾਤਲ (Vertical plan) ਬਣਾਉਣੇ। ਪ੍ਰਸ਼ਨ ਵਿੱਚ ਮੱਥਾ ਤੇ ਤਲ ਬਣਾਉਣਾ ਹੈ।

ਜਾਂ

ਵੱਖ-ਵੱਖ ਠੋਸਾਂ (Solids) ਦੇ ਭਾਗ ਕਰਕੇ ਵੱਖ-ਵੱਖ ਕੋਣਾਂ ਤੋਂ ਮੱਥਾ ਤੇ ਤਲ ਬਣਾਉਣੇ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਪੇਪਰ ਦਾ $1/4$ ਭਾਗ (35 ਸੈਂ.ਮੀ. \times 25 ਸੈਂ.ਮੀ.)

ਭਾਗ-II

ਵਿੱਥ ਸੋਝੀ ਡਰਾਈਂਗ (Perspective Drawing)

ਅੰਕ 25

ਵਿੱਥ ਸੋਝੀ ਦੀ ਪਰਿਭਾਸ਼ਾ :- ਜਿਵੇਂ ਵਿੱਥ ਸੋਝੀ, ਸਮਾਨ ਅੰਤਰ ਵਿੱਥ ਸੋਝੀ, ਕੋਣਿਕ ਵਿੱਥ ਸੋਝੀ, ਚਿੱਤਰ ਤਲ, ਅੱਖ ਤਲ, ਮਾਪ ਬਿੰਦੂ, ਲੋਪ ਬਿੰਦੂ, ਕੇਂਦਰ ਬਿੰਦੂ ਆਦਿ ਦੀਆਂ ਪਰਿਭਾਸ਼ਾਵਾਂ।

ਜ) ਘਣ (Cube) ਘਣ ਖੇਤਰ (Prizm) ਜਿਹਨਾਂ ਦੇ ਨਾਮ ਦਿੱਤੇ ਹੋਏ ਹਨ, ਜੋ ਸਮਾਨਾਂਤਰ ਜਾਂ ਕੋਣਿਕ ਪਰਾਸਪੈਕਟਿਵ ਖੱਬੇ ਜਾਂ ਸੱਜੇ ਤੋਂ ਤਿਆਰ ਕਰਨਾ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਪੇਪਰ ਦਾ $1/2$ ਭਾਗ (35 ਸੈਂ.ਮੀ. \times 55 ਸੈਂ.ਮੀ.)

ਨੋਟ :- ਇਹ ਪੇਪਰ ਪ੍ਰੀਖਿਆ ਭਵਨ ਵਿੱਚ ਸੁਪਰਡੈਂਟ ਦੀ ਹਾਜ਼ਰੀ ਵਿੱਚ ਲਿਖਤੀ ਹੋਵੇਗਾ।

ਸਮੇਸਟਰ-II

ਸਮਾਂ : 4 ਘੰਟੇ

ਬਿਉਰੀ-85 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ ਅੰਕ : 35 ਅੰਕ

ਕੁੱਲ : 120 ਅੰਕ

ਭਾਗ-I

ੳ) ਅੰਡਕਾਰ ਦੇ ਵੱਖ-ਵੱਖ ਕੋਣਾਂ ਤੋਂ ਭਾਗਾਂ ਦੇ ਵੱਖ-ਵੱਖ ਪ੍ਰਸ਼ਨ। ਅੰਕ (2 \times 13 = 26)

ਅ) ਬਹੁਭੁਜਾਂ, ਚੱਕਰਾਂ, ਵਰਗ, ਤਿਕੋਣਾਂ ਦੇ ਖੇਤਰਫਲ ਦੇ ਬਰਾਬਰ ਆਕਾਰ ਜਿਵੇਂ :- ਤਿਕੋਣ ਦੇ ਖੇਤਰਫਲ ਬਰਾਬਰ ਵਰਗ, ਆਇਤ ਅਤੇ ਬਹੁਭੁਜਾਂ ਦੇ ਪ੍ਰਸ਼ਨ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਪੇਪਰ ਦਾ $1/4$ ਭਾਗ (35 ਸੈਂ.ਮੀ. \times 25 ਸੈਂ.ਮੀ.)

ਟੋਸ ਜਿਊਮੈਟਰੀ (Solid Geometry)

ਅੰਕ 19

ਟੋਸ ਜਿਵੇਂ ਘਣ ਖੇਤਰ, ਮਿਨਾਰ, ਗੋਲਾ, ਬੇਲਣ, ਸ਼ੰਕੂ ਦੇ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਕੋਣਿਕ ਕਾਟ ਕਰਕੇ ਮੱਥਾ ਅਤੇ ਪਾਸਾ ਲੇਟਵੀਂ ਧਰਾਤਲ (Horizontal Plan) ਅਤੇ ਖੜੀ ਧਰਾਤਲ (Vertical plan) ਬਣਾਉਣੇ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਪੇਪਰ ਦਾ 1/4 ਭਾਗ (35 ਸੈਂ.ਮੀ. × 25 ਸੈਂ.ਮੀ.)

ਭਾਗ-II

ਵਿੱਥ ਸੋਝੀ ਡਰਾਈਂਗ (Perspective Drawing)

ਅੰਕ 40

ਮਿਨਾਰ ਜਾਂ ਬਕਸਾ ਜਿਹਨਾਂ ਦੇ ਨਾਮ ਦਿੱਤੇ ਹੋਏ ਹਨ ਦੇ ਸਮਾਨਾਂਤਰ ਜਾਂ ਕੋਣਿਕ ਪਰਾਸਪੈਕਟਿਵ ਖੱਬੇ ਜਾਂ ਸੱਜੇ ਤੋਂ ਤਿਆਰ ਕਰਨੇ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਪੇਪਰ ਦਾ 1/2 ਭਾਗ (35 ਸੈਂ.ਮੀ. × 55 ਸੈਂ.ਮੀ.)

ਨੋਟ :- ਇਹ ਪੇਪਰ ਪ੍ਰੀਖਿਆ ਭਵਨ ਵਿੱਚ ਸੁਪਰਡੈਂਟ ਦੀ ਹਾਜ਼ਰੀ ਵਿੱਚ ਲਿਖਤੀ ਹੋਵੇਗਾ।

30. ਕਮਰਸ਼ੀਅਲ ਆਰਟ

ਸਮੇਸਟਰ-I

ਸਮਾਂ : 4 ਘੰਟੇ

ਭਾਗ-I

ਕੁੱਲ ਅੰਕ : 80

ਲੇ-ਆਉਟ (Layout Designing) ਡੀਜ਼ਾਇਨਿੰਗ

32 : ਅੰਕ

I) ਹਿੰਦੀ, ਪੰਜਾਬੀ ਜਾਂ ਅੰਗਰੇਜ਼ੀ ਵਿੱਚ ਵੱਡੇ ਵੱਡੇ ਅੱਖਰਾਂ ਵਿੱਚ ਲਿਖਾਈ ਕਰਨਾ।

ਜਿਵੇਂ -

ਧੰਨਵਾਦ, /U;okn, THANKS

ਮੁਹਾਲੀ, eqgkyh , MOHALI

ਜੈ ਹਿੰਦ, t; fgUn , JAI HIND

(ii) ਵੱਖ ਵੱਖ ਤਰ੍ਹਾਂ ਦੇ ਲੇਬਲ (LABELS) ਤਿਆਰ ਕਰਨੇ।

ਸਾਈਜ਼ - 35 ਸੈਂ. ਮੀ. × 25 ਸੈਂ.ਮੀ., ਮਾਧਿਅਮ - ਪੋਸਟਰ ਕਲਰ।

ਸਮਾਂ : 4 ਘੰਟੇ

ਭਾਗ - II

32 ਅੰਕ

ਪੋਸਟਰ ਬਣਾਉਣੇ (Poster Making)

I) ਵਪਾਰਕ ਜ਼ਰੂਰਤਾਂ ਸੰਬੰਧੀ ਮਸ਼ਹੂਰੀਆਂ (Advertisement) ਦੇ ਪੋਸਟਰ ਬਣਾਉਣੇ।

ਜਿਵੇਂ - ਰੈਡ ਲੇਬਲ ਚਾਹ (Red Label Tea)

ਕੌਲਗੇਟ ਟੂਥਪੇਸਟ (Colgate Tooth Paste)

ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਰਗਜ਼ ਦਾ $\frac{1}{4}$ ਭਾਗ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀ.), ਮਾਧਿਅਮ - ਪੋਸਟਰ ਕਲਰ।

ਭਾਗ - III

16 ਅੰਕ

ਸੈਸ਼ਨਲ ਕੰਮ

ਘੱਟੋ-ਘੱਟ ਅੱਠ ਆਈਟਮਾਂ ਇਸ ਸਮੈਸਟਰ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਜਾਣ। ਹਰ ਆਈਟਮ ਦੇ 2 ਅੰਕ ਹਨ।

ਨੋਟ : ਪਹਿਲੇ ਤੇ ਦੂਜੇ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ-ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨਾ ਹੋਵੇਗਾ। ਇਹ ਪੇਪਰ ਪ੍ਰੈਕਟੀਕਲ ਵਿਸ਼ਾ ਹੈ ਜੋ ਕਿ ਪ੍ਰੈਕਟੀਕਲ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ।

ਸਮੈਸਟਰ-II

ਸਮਾਂ : 4 ਘੰਟੇ

ਭਾਗ-I

ਕੁੱਲ ਅੰਕ : 120

ਲੇ-ਆਉਟ (Layout Designing) ਡੀਜਾਇਨਿੰਗ

ਅੰਕ : 45

I) ਵੱਖ-ਵੱਖ ਤਰ੍ਹਾਂ ਦੇ ਕਿਤਾਬ ਦੇ ਟਾਈਟਲ (Book Cover) ਅਤੇ ਟਾਈਟਲ ਤਿਆਰ ਕਰਨੇ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਰਗਜ਼ ਦਾ $\frac{1}{4}$ ਭਾਗ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀ.),

ਮਾਧਿਅਮ - ਪੋਸਟਰ ਕਲਰ।

ਸਮਾਂ : 4 ਘੰਟੇ

ਭਾਗ - II

45 ਅੰਕ

ਪੋਸਟਰ ਬਣਾਉਣੇ (Poster Making)

I) ਵਿੱਦਿਅਕ ਲੋੜਾਂ ਸੰਬੰਧੀ ਮਸ਼ਹੂਰੀਆਂ (Advertisement) ਦੇ ਪੋਸਟਰ ਬਣਾਉਣੇ।

ਜਿਵੇਂ - ਪੜ੍ਹੋ, ਪੰਜਾਬ

ਵਿੱਦਿਆ ਵਿਚਾਰੀ ਤਾਂ ਪਰਉਪਕਾਰੀ

ਪੰਜਾਬੀ ਮੇਰੀ ਮਾਂ ਬੋਲੀ

ਨੋਟ : ਪੋਸਟਰ ਵਿੱਚ ਤਸਵੀਰ ਅਤੇ ਲਿਖਾਈ ਦੀ ਲੋੜ ਅਨੁਸਾਰ ਅਨੁਪਾਤ ਦਾ ਸੁਮੇਲ ਹੋਣਾ ਜ਼ਰੂਰੀ ਹੈ। ਤਸਵੀਰ ਵਿਸ਼ੇ ਅਨੁਸਾਰ ਢੁੱਕਵੀਂ ਹੋਣੀ ਚਾਹੀਦੀ ਹੈ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ $\frac{1}{4}$ ਭਾਗ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀ.),

ਮਾਧਿਅਮ - ਪੇਂਟਰ ਕਲਰ।

ਭਾਗ - III

ਸੈਸ਼ਨਲ ਕੰਮ

30 ਅੰਕ

ਘੱਟੋ-ਘੱਟ ਚਾਰ ਆਈਟਮਾਂ ਇਸ ਸੈਸ਼ਨ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਜਾਣ। ਹਰ ਆਈਟਮ ਦੇ $2\frac{1}{2}$ ਅੰਕ ਹਨ।

ਨੋਟ : ਪਹਿਲੇ ਤੇ ਦੂਜੇ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ-ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨਾ ਹੋਵੇਗਾ। ਇਹ ਪੇਪਰ ਪ੍ਰੈਕਟੀਕਲ ਵਿਸ਼ਾ ਹੈ ਜੋ ਕਿ ਪ੍ਰੈਕਟੀਕਲ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ।

31. ਡਰਾਈਂਗ ਅਤੇ ਚਿੱਤਰਕਲਾ

ਸਮੇਸਟਰ-I

ਭਾਗ-I

ਸਮਾਂ : 4 ਘੰਟੇ

ਕੁੱਲ ਅੰਕ : 80

ਫਰੀਹੈਂਡ ਸੁਤੰਤਰ ਸਵੈ-ਪ੍ਰਗਟਾਵਾ (free hand self expression) ਅਤੇ ਡੀਜ਼ਾਇਨ (Design) ਅੰਕ : 32
ਸਕੈਚਿੰਗ ਅਤੇ ਬਣਾਵਟ :- ਚਾਰਕੋਲ, ਪੈਨਸਿਲ, ਕਰੇਓਨ ਪੇਂਟਲ (crayon), ਬੁਰਸ਼ ਅਤੇ ਰੰਗਾਂ ਦੁਆਰਾ ਆਕਾਰਾਂ ਦੇ ਕਲਪਨਾਮਈ ਸਕੈਚ ਤਿਆਰ ਕਰਨੇ।

ਪੰਛੀ ਅਤੇ ਪਸ਼ੂਆਂ ਦੇ ਆਕਾਰੀ ਰੇਖਾ ਚਿੱਤਰ ਤਿਆਰ ਕਰਨੇ।

ਜਾਂ

ਧਰਤੀ ਦ੍ਰਿਸ਼ ਚਿੱਤਰਨ (Landscape Painting)

ਆਪਣੀ ਯਾਦ ਸ਼ਕਤੀ ਦੁਆਰਾ ਪਹਾੜ, ਝੀਲ, ਝੋਂਪੜੀ, ਦਰਿਆ ਆਦਿ ਦੇ ਚਿੱਤਰਾਂ ਨੂੰ ਪ੍ਰਯੋਗ ਕਰਕੇ ਕੁਦਰਤੀ ਦ੍ਰਿਸ਼ ਬਣਾਉਣੇ।

ਜਾਂ

ਡੀਜ਼ਾਇਨ (Design)

ਕੁਦਰਤੀ ਅਤੇ ਜਿਊਮੈਟਰੀਕਲ ਆਕਾਰਾਂ ਤੋਂ ਡੀਜ਼ਾਇਨ ਤਿਆਰ ਕਰਨੇ। ਡੀਜ਼ਾਇਨ ਬਣਾਉਣ ਲਈ ਵਰਗਾਕਾਰ, ਆਇਤਾਕਾਰ ਅਤੇ ਤਿਕੋਣੇ ਆਕਾਰਾਂ ਵਿੱਚ ਡੀਜ਼ਾਇਨ ਬਣਾਉਣੇ। ਸਧਾਰਨ ਫੁੱਲ, ਪੱਤੇ, ਟਾਹਣੀਆਂ ਅਤੇ ਡੋਡੀਆਂ ਦਰਸਾਂਦੇ ਹੋਏ ਸਜਾਵਟੀ ਨਮੂਨੇ ਤਿਆਰ ਕਰਨੇ।

ਪੇਪਰ ਦਾ ਸਾਈਜ਼ (ਪੂਰੇ ਕਾਗਜ਼ ਦਾ $\frac{1}{4}$ ਹਿੱਸਾ) (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀ.)।

ਨੋਟ : ਡੀਜ਼ਾਇਨ ਵਾਸਤੇ ਸਿਰਫ਼ ਪਾਣੀ ਵਾਲੇ ਰੰਗ ਪ੍ਰਯੋਗ ਕੀਤੇ ਜਾਣ।

ਸਮਾਂ : 4 ਘੰਟੇ

ਭਾਗ - II

32 ਅੰਕ

ਮਾਡਲ ਡਰਾਇੰਗ (Still Life)

ਕੋਈ ਤਿੰਨ ਵਸਤੂਆਂ ਨੂੰ ਇਕੱਠੀਆਂ ਰੱਖਕੇ ਚਿੱਤਰਨ ਕਰਨਾ। ਇਹਨਾਂ ਵਿੱਚ ਇੱਕ ਵਰਗਾਕਾਰ ਜਾਂ ਆਇਤਾਕਾਰ ਅਤੇ ਬਾਕੀ ਦੋ ਵਸਤੂਆਂ ਗੋਲਾਕਾਰ, ਅੰਡਾਕਾਰ ਜਾਂ ਸਲੰਡਰ ਆਕਾਰ ਹੋਣ।

ਮਾਡਲ ਡਰਾਇੰਗ ਵਿੱਚ ਛਾਇਆ ਤੇ ਪਰਛਾਇਆ (Light and Shade) ਰੰਗਾਂ ਦੁਆਰਾ ਦਿਖਾਈ ਜਾਵੇ। ਅਨੁਪਾਤ ਅਤੇ ਸਮਾਨ ਅਨੁਪਾਤ ਦਾ ਧਿਆਨ ਰੱਖਿਆ ਜਾਵੇ।

ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ $\frac{1}{4}$ ਭਾਗ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀ.,)

ਮਾਧਿਅਮ - ਪੈਨਸਿਲ ਰੰਗ, ਪੇਸਟਰ ਕਲਰ/ਪਾਣੀ ਵਾਲੇ ਰੰਗ/ਤੇਲ ਵਾਲੇ ਰੰਗ।

ਭਾਗ - III

ਸੈਸ਼ਨਲ ਕੰਮ

ਘੱਟੋ-ਘੱਟ ਅੱਠ ਆਈਟਮਾਂ ਇਸ ਸੈਸ਼ਨ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਜਾਣ। ਹਰ ਆਈਟਮ ਦੇ 2 ਅੰਕ ਹਨ। 16 ਅੰਕ

ਸਮੇਸਟਰ-II

ਸਮਾਂ : 4 ਘੰਟੇ

ਕੁੱਲ ਅੰਕ : 120

ਫਰੀਹੈਂਡ ਸੁਤੰਤਰ ਸਵੈ-ਪ੍ਰਗਟਾਵਾ (free hand self expression) ਅਤੇ ਡੀਜ਼ਾਇਨ (Design) 45 ਅੰਕ
ਸਕੈਚਿੰਗ ਅਤੇ ਬਣਾਵਟ :- ਸੁਤੰਤਰ ਪ੍ਰਗਟਾਅ ਦੁਆਰਾ ਜੀਵਨ ਦੀਆਂ ਘਟਨਾਵਾਂ ਅਤੇ ਜਾਣੇ-ਪਛਾਣੇ ਦ੍ਰਿਸ਼ਾਂ ਦੀ ਚਿੱਤਰਕਾਰੀ ਕਰਨਾ ਜਿਵੇਂ ਖੇਡਦੇ ਬੱਚੇ, ਕਿੱਕਲੀ ਪਾਉਂਦੀਆਂ ਕੁੜੀਆਂ, ਭੰਗੜਾ, ਕਿਸਾਨ, ਵਿਦਿਆਰਥੀ, ਸਪੇਰਾ, ਮੰਗਤਾ ਆਦਿ।

ਫੁਰਦੇ-ਫਿਰਦੇ ਅਤੇ ਦੌੜਦੇ ਪੰਛੀ ਅਤੇ ਪਸ਼ੂਆਂ/ਜਾਨਵਰਾਂ ਜਿਵੇਂ ਹਿਰਨ, ਸ਼ੇਰ, ਖਰਗੋਸ਼, ਮੋਰ, ਕੁੱਕੜ, ਬਲਦ, ਭੇਡ ਆਦਿ ਦੇ ਚਿੱਤਰ ਬਣਾਉਣੇ।

ਪੇਪਰ ਦਾ ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ $\frac{1}{4}$ ਹਿੱਸਾ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀ.,)

ਮਾਧਿਅਮ - ਚਾਰਕੋਲ, ਪੈਨਸਿਲ, ਕਰੇਓਨ ਪੇਸਟਲ (crayon), ਬੁਰਸ਼ ਅਤੇ ਰੰਗ

ਜਾਂ

ਡਿਜ਼ਾਇਨ

ਫੁੱਲ ਪੱਤੀਆਂ, ਡੋਡੀਆਂ, ਟਾਹਣੀਆਂ ਵਾਲੇ ਜਿਊਮੈਟਰੀਕਲ ਆਕਾਰਾਂ ਜਿਵੇਂ ਆਇਤਾਕਾਰ, ਵਰਗਾਕਾਰ, ਤਿਕੋਣੇ ਚੱਕਰ, ਅਰਧ ਚੱਕਰ, ਬਹੁ-ਭੁਜਾਂ ਵਿੱਚ ਡਿਜ਼ਾਇਨ ਬਣਾਉਣੇ ਜਿਵੇਂ - ਸਾੜੀ ਬਾਰਡਰ, ਖਿੜਕੀ ਦਾ ਡਿਜ਼ਾਇਨ, ਗਲੀਚੇ ਦਾ ਡਿਜ਼ਾਇਨ ਆਦਿ ਤਿਆਰ ਕਰਨਾ।

ਪੇਪਰ ਦਾ ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ $\frac{1}{4}$ ਹਿੱਸਾ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀਂ.,)

ਮਾਧਿਅਮ - ਪਾਣੀ ਵਾਲੇ ਰੰਗ।

ਜਾਂ

ਧਰਤੀ ਦ੍ਰਿਸ਼ ਚਿੱਤਰਨ (Landscape Painting)

ਆਪਣੀ ਯਾਦ ਸ਼ਕਤੀ ਜਾਂ ਸਾਹਮਣੇ ਦਿਸਦੇ ਦ੍ਰਿਸ਼ ਨੂੰ ਚਿੱਤਰਨਾ ਜਿਵੇਂ ਦਰਿਆ, ਪਹਾੜ, ਝੀਲ, ਦਰੱਖਤ, ਘਰ, ਝੌਂਪੜੀ, ਤਲਾਬ ਅਤੇ ਮਨੁੱਖੀ ਆਕਾਰ ਚਿੱਤਰਨੇ।

ਪੇਪਰ ਦਾ ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ $\frac{1}{4}$ ਹਿੱਸਾ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀਂ.,)

ਮਾਧਿਅਮ - ਚਾਰਕੋਲ, ਪੈਨਸਿਲ, ਕਰੇਓਨ ਪੇਸਟਲ (crayon), ਬੁਰਸ਼ ਅਤੇ ਰੰਗ

ਸਮਾਂ : 4 ਘੰਟੇ

ਭਾਗ - II

45 ਅੰਕ

ਮਾਡਲ ਡਰਾਇੰਗ (Still Life)

ਆਮ ਵਰਤੋਂ ਦੀਆਂ ਤਿੰਨ ਵਸਤੂਆਂ ਨੂੰ ਇਕੱਠਿਆਂ ਰੱਖਕੇ ਪਿੱਛੇ ਡਰਾਪਰੀ (ਕੱਪੜਾ) ਸੈਟ ਕਰਕੇ ਮਾਡਲ ਤਿਆਰ ਕਰਨਾ ਵਸਤੂਆਂ ਵਿੱਚ ਇੱਕ ਵਸਤੂ ਆਇਤਾਕਾਰ ਜਾਂ ਵਰਗਾਕਾਰ ਜ਼ਰੂਰੀ ਹੋਣੀ ਚਾਹੀਦੀ ਹੈ। ਮਾਡਲ ਡਰਾਇੰਗ ਬਣਾਉਂਦੇ ਸਮੇਂ ਪੇਪਰ ਦੀ ਵੰਡ ਠੀਕ ਡਰਾਇੰਗ ਅਨੁਪਾਤ ਤੇ ਸਮਾਨ ਅਨੁਪਾਤ ਛਾਇਆ ਅਤੇ ਪਰਛਾਇਆ ਦਾ ਧਿਆਨ ਰੱਖਿਆ ਜਾਵੇ।

ਪੇਪਰ ਦਾ ਸਾਈਜ਼ :- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ $\frac{1}{4}$ ਹਿੱਸਾ (35 ਸੈਂ. ਮੀ. \times 25 ਸੈਂ. ਮੀਂ.,)

ਮਾਧਿਅਮ - ਪੈਨਸਿਲ ਰੰਗ, ਪੇਸਟਲ ਕਲਰ/ਪਾਣੀ ਵਾਲੇ ਰੰਗ/ਤੇਲ ਵਾਲੇ ਰੰਗ।

ਭਾਗ - III

ਸੈਸ਼ਨਲ ਕੰਮ

ਘੱਟੋ-ਘੱਟ ਬਾਰਾਂ ਆਈਟਮਾਂ ਇਸ ਸੈਸ਼ਨ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਜਾਣ। ਹਰ ਆਈਟਮ ਦੇ $2\frac{1}{2}$ ਅੰਕ ਹਨ। 30 ਅੰਕ

32. ਕਲਾ ਦਾ ਇਤਿਹਾਸ ਅਤੇ ਪ੍ਰਸ਼ੰਸਾ

ਸਮੈਸਟਰ-I

ਸਮਾਂ : 4 ਘੰਟੇ

ਥਿਊਰੀ : 55 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 25 ਅੰਕ
ਕੁੱਲ : 80 ਅੰਕ

ਨੋਟ : ਇਹ ਪੇਪਰ ਬਾਕੀ ਬਿਊਰੀ ਪੇਪਰਾਂ ਵਾਂਗ ਕੇਂਦਰ ਸੁਪਰਡੰਟ ਦੀ ਹਾਜ਼ਰੀ ਵਿੱਚ ਹੋਵੇਗਾ।

ਭਾਗ-I

ਅੰਕ 33

1. ਪੂਰਵ ਇਤਿਹਾਸ ਗੁਫ਼ਾਵਾਂ ਦੀ ਚਿੱਤਰਕਾਰੀ।
2. ਸਿੰਧ ਘਾਟੀ ਦੀ ਸੱਭਿਅਤਾ ਦੇ ਚਿੱਤਰ।
3. ਮੌਰੀਆ ਯੁੱਗ (323 ਤੋਂ 185)

ਭਾਗ-II

ਅੰਕ 22

1. ਕਲਾ ਦੀ ਪ੍ਰੀਭਾਸ਼ਾ।
2. ਕਲਾ ਦੀ ਉੱਤਪਤੀ।
3. ਹੇਠ ਲਿਖਿਆਂ ਤੇ ਨੋਟ ਲਿਖੋ :-
ਰੇਖਾ, ਥਾਂ, ਰੰਗ, ਟੈਕਸਚਰ (Texture), ਛਾਇਆ ਤੇ ਪ੍ਰਛਾਇਆ, ਵਿੱਥ ਸੋਝੀ।

ਨੋਟ :- ਕੁੱਲ ਦਸ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ। ਜਿਹਨਾਂ ਵਿੱਚੋਂ ਪੰਜ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹੋਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 11 ਅੰਕ ਹਨ।

ਸਮੇਸਟਰ-II

ਸਮਾਂ : 4 ਘੰਟੇ

ਲਿਖਤੀ : 85 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 35 ਅੰਕ

ਕੁੱਲ ਅੰਕ : 120 ਅੰਕ

ਨੋਟ : ਇਹ ਪੇਪਰ ਬਾਕੀ ਬਿਊਰੀ ਪੇਪਰਾਂ ਵਾਂਗ ਕੇਂਦਰ ਸੁਪਰਡੰਟ ਦੀ ਹਾਜ਼ਰੀ ਵਿੱਚ ਹੋਵੇਗਾ।

ਭਾਗ-I

1. ਸੰਗਾ ਕਲਾ
2. ਗੰਧਰਵ ਕਲਾ
3. ਗੁਪਤਾ ਕਲਾ

ਭਾਗ-II

1. ਕਲਾ ਦੇ ਸਿਧਾਂਤਾਂ ਦੇ ਬਾਰੇ ਨੋਟ ਲਿਖੋ।
ਸੰਤੁਲਨ (Balance), ਸਮਤੋਲ ਇਕਸਾਰਤਾ (Harmony Rhythem), ਪ੍ਰਧਾਨਤਾ (Dominance),
ਸਮਾਨੁਪਾਤ (Proportion)
2. ਨਿੱਤ ਪ੍ਰਤੀ ਜੀਵਨ ਵਿੱਚ ਕਲਾ
3. ਡਿਜ਼ਾਇਨ ਅਤੇ ਇਸ ਦੀਆਂ ਕਿਸਮਾਂ

ਨੋਟ :- ਦੋਹਾਂ ਭਾਗਾਂ ਵਿੱਚੋਂ ਕੁੱਲ ਦਸ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ। ਜਿਹਨਾਂ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਨੇ ਪੰਜ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਹਨ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 17 ਅੰਕ ਹਨ।

33. ਸਰੀਰਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ

ਸਮੇਸਟਰ-I

ਬਿਊਰੀ ਲਈ ਸਮਾਂ : 2½ ਘੰਟੇ

ਬਿਊਰੀ ਭਾਗ ਅੰਕ : 30

ਪ੍ਰਯੋਗੀ ਭਾਗ ਅੰਕ : 40

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ ਅੰਕ : 10

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ 15 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 1 ਤੋਂ 8 ਤੱਕ ਇਕ-ਇਕ ਅੰਕ ਵਾਲੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਭੱਗ 10 ਸ਼ਬਦਾਂ ਦਾ ਹੋ ਸਕਦਾ ਹੈ ਅਤੇ ਓਬਜੈਕਟਿਵ ਟਾਈਪ ਵੀ ਹੋ ਸਕਦਾ ਹੈ।
3. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 9 ਤੋਂ 11, ਦੋ-ਦੋ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਭੱਗ 30 ਸ਼ਬਦਾਂ ਦਾ ਹੋ ਸਕਦਾ ਹੈ।
4. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 12 ਤੋਂ 13, ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ, ਜਿਨ੍ਹਾਂ ਦਾ ਉੱਤਰ ਲਗਭੱਗ 30-50 ਸ਼ਬਦਾਂ ਦਾ ਹੋ ਸਕਦਾ ਹੈ।
5. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 14 ਅਤੇ 15 ਪੰਜ-ਪੰਜ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ, ਇਹਨਾਂ ਵਿੱਚ 100 ਪ੍ਰਤੀਸ਼ਤ ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।

ਪਾਠ-ਕ੍ਰਮ

ਲਿਖਤੀ ਭਾਗ

ਪਾਠ ਪਹਿਲਾ

ਸਰੀਰਕ ਸਿੱਖਿਆ

- (ੳ) ਭਾਰਤ ਵਿੱਚ ਸਰੀਰਕ ਸਿੱਖਿਆ ਦਾ ਇਤਿਹਾਸ
- (ਅ) ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੀ ਧਾਰਨਾ, ਟੀਚੇ ਅਤੇ ਉਦੇਸ਼

ਪਾਠ ਦੂਜਾ

(1) ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਸਰੀਰਕ ਕਿਰਿਆ ਸਬੰਧੀ ਪ੍ਰਭਾਵ

- (1) ਕਸਰਤਾਂ ਦੇ ਪ੍ਰਭਾਵ

- (ੳ) ਪੇਸ਼ੀ-ਪ੍ਰਬੰਧ ਜਾਂ ਪੱਠਾ ਪ੍ਰਣਾਲੀ ਤੇ ਕਸਰਤ ਦੇ ਪ੍ਰਭਾਵ
 - (ਅ) ਕਸਰਤ ਦੇ ਲਹੂ ਗੋੜ ਪ੍ਰਣਾਲੀ ਦੇ ਪ੍ਰਭਾਵ
 - (ੲ) ਸਵਾਸ ਕਿਰਿਆ ਪ੍ਰਣਾਲੀ ਤੇ ਕਸਰਤ ਦੇ ਪ੍ਰਭਾਵ
- (2) ਥਕਾਵਟ, ਦੂਸਰਾ ਸਵਾਸ, ਉਕਤਾਹਟ, ਆਕਸੀਜਨ ਕਰਜ ਵਰਗੀਆਂ ਘਟਨਾਵਾਂ।

ਪਾਠ ਤੀਜਾ

ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਮਨੋਵਿਗਿਆਨਕ ਪੰਖ

- (ੳ) ਮਨੋਵਿਗਿਆਨਕ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਖੇਡ ਮਨੋਵਿਗਿਆਨ
- (ਅ) ਖੇਡ ਦੇ ਸਿਧਾਂਤ

ਪਾਠਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ)

ਸਮਾਂ : 4 ਘੰਟੇ

ਕੁੱਲ ਅੰਕ : 40

- (ੳ) ਟਰੈਕ ਅਤੇ ਫੀਲਡ ਈਵੈਂਟਸ (ਲੜਕੇ ਤੇ ਲੜਕੀਆਂ ਲਈ) ਹਰੇਕ ਈਵੈਂਟ ਦੇ 10 ਅੰਕ ਹੋਣਗੇ।
ਹੇਠ ਲਿਖਿਆ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਈਵੈਂਟਸ ਚੁਣੀਆਂ ਜਾ ਸਕਦੀਆਂ ਹਨ।
 1. ਦੌੜਾਂ - 100 ਮੀਟਰ ਅਤੇ 200 ਮੀਟਰ ਅਤੇ 400 ਮੀਟਰ
 2. 4×100 ਮੀਟਰ ਅਤੇ 4×400 ਮੀਟਰ ਰਿਲੇਅ
 3. ਬਰਾਡ ਜੰਪ, ਪੋਲਵਾਲਟ, ਸ਼ਾਟਪੁੱਟ, ਜੈਵਲਿਨ ਥਰੋ
 - (ਅ) ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ ਖੇਡ ਦੀ ਚੋਣ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਖੇਡ ਦੇ 10 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) ਵਾਈਵਾ - 5 ਅੰਕ
- ਨੋਟ : ਪ੍ਰੈਕਟੀਕਲ ਦੇਣ ਸਮੇਂ ਪ੍ਰੀਖਿਆਰਥੀ ਸਪੋਰਟਸ ਕਿੱਟ ਵਿੱਚ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ।

ਸਮੇਸਟਰ-II

ਬਿਊਰੀ ਲਈ ਸਮਾਂ : 3 ਘੰਟੇ

ਬਿਊਰੀ ਭਾਗ ਅੰਕ : 40

ਪ੍ਰਯੋਗੀ ਭਾਗ ਅੰਕ : 60

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ ਅੰਕ : 20

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ 19 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 1 ਤੋਂ 8 ਤੱਕ ਇਕ-ਇਕ ਅੰਕ ਵਾਲੇ ਹੋਣਗੇ।
3. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 9 ਤੋਂ 13, ਦੋ-ਦੋ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਭੱਗ 20-30 ਸ਼ਬਦਾਂ ਦਾ ਹੋ ਸਕਦਾ ਹੈ।
4. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 14 ਤੋਂ 17, ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਭੱਗ 30-40 ਸ਼ਬਦਾਂ ਦਾ ਹੋ ਸਕਦਾ ਹੈ।
5. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 18 ਅਤੇ 19 ਪੰਜ-ਪੰਜ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ, ਜਿਨ੍ਹਾਂ ਵਿੱਚ 100 ਪ੍ਰਤੀਸ਼ਤ ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।

ਪਾਠ-ਕ੍ਰਮ

ਲਿਖਤੀ ਭਾਗ

ਪਾਠ ਪਹਿਲਾ ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਮਨੋਵਿਗਿਆਨਕ ਪੱਖ

- (ੳ) ਖੇਡ-ਪ੍ਰਦਰਸ਼ਨ (ਕੁਸ਼ਲਤਾ) ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਮਨੋਵਿਗਿਆਨਕ ਤੱਤ।
- (ਅ) ਪ੍ਰੇਰਣਾ

ਪਾਠ ਦੂਜਾ ਸਿਹਤ ਸਿੱਖਿਆ

- (ੳ) ਸਿਹਤ ਸਿੱਖਿਆ ਦੀ ਧਾਰਨਾ, ਟੀਚੇ, ਉਦੇਸ਼ ਅਤੇ ਖੇਤਰ।
- (ਅ) ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਸਿਧਾਂਤ, ਬਾਲਿਗ ਅਤੇ ਯੁਵਾ ਪੀੜ੍ਹੀ ਦੀ ਲਈ ਸਿਹਤ ਸਿੱਖਿਆ ਦਾ ਮਹੱਤਵ। ਸਿਹਤ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਤੱਤ, ਵਿਅਕਤੀ, ਪਰਿਵਾਰ ਅਤੇ ਸਮਾਜ ਦੀ ਸਿਹਤ ਤੇ ਸ਼ਰਾਬ, ਤੰਬਾਕੂ ਅਤੇ ਨਸ਼ੀਲੀ ਦਵਾਈਆਂ ਦੀ ਵਰਤੋਂ ਦੇ ਪ੍ਰਭਾਵ।

- (ੲ) ਅੱਜ ਦੀਆਂ ਸਿਹਤ ਸਮੱਸਿਆਵਾਂ - ਪ੍ਰਦੂਸ਼ਣ, ਪਾਣੀ, ਹਵਾ, ਆਵਾਜ਼, ਕੁਪੋਸ਼ਣ ਅਤੇ ਇਨ੍ਹਾਂ ਨੂੰ ਹੱਲ ਕਰਨ ਲਈ ਸਿਹਤ ਸਿੱਖਿਆ ਦਾ ਯੋਗਦਾਨ।
- (ਸ) ਛੂਤ ਦੀਆਂ ਬਿਮਾਰੀਆਂ ਦਾ ਅਰਥ, ਉਹਨਾਂ ਦੇ ਸੰਚਾਰਨ ਦਾ ਢੰਗ ਅਤੇ ਹੇਠ ਲਿਖ ਬਿਮਾਰੀਆਂ ਦੀ ਰੋਕਥਾਮ-ਏਡਜ਼, ਰੇਬੀਜ਼, ਟੈਟਨਸ, ਮਲੇਰੀਆ, ਟੀ.ਬੀ., ਹੈਪੇਟਾਈਟਸ-ਬੀ।

ਪਾਠ ਤੀਜਾ ਓਲੰਪਿਕ ਖੇਡਾਂ

- (ੳ) ਆਧੁਨਿਕ ਓਲੰਪਿਕ ਖੇਡਾਂ ਦਾ ਇਤਿਹਾਸ। ਓਲੰਪਿਕ ਮਾਟੋ, ਓਲੰਪਿਕ ਸੌਹ ਅਤੇ ਝੰਡਾ
- (ਅ) ਪੰਜਾਬ ਖੇਡ ਵਿਭਾਗ
- (ੲ) ਪੰਜਾਬ ਓਲੰਪਿਕ ਐਸੋਸੀਏਸ਼ਨ

ਪਾਠ ਚੌਥਾ ਸਰੀਰਕ ਵਾਧਾ ਅਤੇ ਵਿਕਾਸ

- (ੳ) ਵਾਧੇ ਅਤੇ ਵਿਕਾਸ ਵਿੱਚ ਅੰਤਰ
- (ਅ) ਵਾਧੇ ਅਤੇ ਵਿਕਾਸ ਤੇ ਵੰਸ਼ ਪਰੰਪਰਾ ਅਤੇ ਵਾਤਾਵਰਣ ਦੇ ਪ੍ਰਭਾਵ
- (ੲ) ਵਿਅਕਤੀਗਤ ਸਿਹਤ ਅਤੇ ਸਿਹਤ ਨਿਯਮ
- (ਸ) ਖਿਡਾਰੀਆਂ ਲਈ ਸੰਤੁਲਿਤ ਭੋਜਨ

ਪਾਠਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ)

ਸਮਾਂ : 4 ਘੰਟੇ

ਕੁੱਲ ਅੰਕ : 60

- (ੳ) ਟਰੈਕ ਅਤੇ ਫੀਲਡ ਈਵੈਂਟਸ (ਲੜਕੇ ਤੇ ਲੜਕੀਆਂ ਲਈ) ਹਰੇਕ ਈਵੈਂਟ ਦੇ 10 ਅੰਕ ਹੋਣਗੇ।

ਹੇਠ ਲਿਖਿਆ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਈਵੈਂਟਸ ਚੁਣੀਆਂ ਜਾ ਸਕਦੀਆਂ ਹਨ।

1. ਦੌੜਾਂ - 400 ਮੀਟਰ, 800 ਮੀਟਰ, 3000 ਮੀਟਰ, ਲੜਕੀਆਂ ਲਈ 110 ਮੀਟਰ ਹਰਡਲ (ਹਰਡਲ ਦੀ ਉਚਾਈ 96.4 ਸੈਂ.ਮੀ. ਅਤੇ 10 ਉਚਾਈਆਂ), ਲਕੀਆਂ ਲਈ 100 ਮੀਟਰ ਹਰਡਲ (ਹਰਡਲ ਦੀ ਉਚਾਈ 76.2 ਸੈਂ.ਮੀ. ਅਤੇ 8 ਉਚਾਈਆਂ)।

2. ਜੈਵਲਿਨ ਥਰੋ, ਲੌਂਗ ਜੰਪ, ਹਾਈ ਜੰਪ, ਅਰਿੱਪਲ ਜੰਪ।

- (ਅ) ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ ਖੇਡ ਦੀ ਚੋਣ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਖੇਡ ਦੇ 10 ਅੰਕ ਹੋਣਗੇ।

ਖੇਡਾਂ(ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ)

ਫੁੱਟਬਾਲ, ਬੈਡਮਿੰਟਨ, ਬਾਸਕਟਬਾਲ, ਕ੍ਰਿਕਟ, ਖੋ-ਖੋ, ਕੁਸ਼ਤੀ, ਜੁਡੋ, ਵਾਲੀਬਾਲ, ਗੱਤਕਾ, ਲਾਨ ਟੈਨਿਸ, ਯੋਗਾ ਨਾਲ ਸਬੰਧਿਤ ਕਿਰਿਆਵਾਂ, 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 ਸਮੇਸਟਰ ਵਿੱਚ ਹੀ ਜੋੜੇ ਜਾਣਗੇ)।

ਸਕੂਲ ਪ੍ਰਤੀਨਿਧਤਾ 5 ਅੰਕ

ਜ਼ੋਨ ਪ੍ਰਤੀਨਿਧਤਾ 7 ਅੰਕ

ਜਿਲ੍ਹਾ/ਕਾਲਜ ਪ੍ਰਤੀਨਿਧਤਾ 9 ਅੰਕ

ਰਾਜ/ਯੂਨੀਵਰਸਿਟੀ ਪ੍ਰਤੀਨਿਧਤਾ 12 ਅੰਕ

ਕੌਮੀ ਪ੍ਰਤੀਨਿਧਤਾ 15 ਅੰਕ

(ਸ) ਪ੍ਰੈਕਟੀਕਲ ਕਾਪੀ, ਚਾਰਟ ਜਾਂ ਮਾਡਲ-5 ਅੰਕ

(ਹ) ਵਾਈਵਾ - 10 ਅੰਕ

ਨੋਟ : ਪ੍ਰੈਕਟੀਕਲ ਦੇਣ ਸਮੇਂ ਪ੍ਰੀਖਿਆਰਥੀ ਸਪੋਰਟਸ ਕਿੱਟ ਵਿੱਚ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ।

34. INSURANCE **(Humanities Group)** **SEMESTER - I**

TIME- 2½ Hours

Theory : 55 Marks
I.A./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

- I. Concept of Risk:- Types of risks, methods of handling risk, functions of insurance, scope of insurance. History of Insurance, Indian market structure, legislative measures, insurance legislation and other legislation relating to insurance agency, licensing, commission structure, loss prevention; stamp duty.
- II. Underwriting:- New business procedure, proposal from cover note, certificate of Insurance, co-insurance; renewal procedure, premium.

SEMESTER - II

TIME- 3 Hours

Theory : 85 Marks
I.A./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 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

- III. **Law of Contract:-** Essentials of Insurance contracts, validity of contract, Basic principles of insurance, utmost good faith, insurable interest, indemnity, subrogation, contribution, proximate cause.

- IV. Claims:-** Factors to be considered, arbitration procedure, methods of settlement. Re-insurance; method, application.
- V. Accounting Practices:-** Forms of Accounts, reserves for unexpired risks practice, statutory returns.
- VI. Salesmanship;** Qualities of Salesman, technique of selling, method of canvassing.

35. RURAL DEVELOPMENT AND ENVIRONMENT SEMESTER-I

TIME- 2½ Hours

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

STRUCTURE OF THE QUESTION PAPER

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. $1 \times 5 = 5$
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-I 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. $5 \times 4 = 20$

PART-I

I. General Background:

- (i) Introduction: Meaning and importance of Rural Development; Its basic objectives. Overall and integrated approach to Rural Development.
- (ii) Integrated Rural Development Programme (I.R.D.P.). Its working, objectives and achievements: Various schemes of I.R.D.P. for strengthening the infrastructural base in the village.

II. Role of Community Development and Voluntary Agencies in the Rural Development (with special reference to Punjab)

- (i) Role of Voluntary Agencies like Mahila Mandals, Youth Clubs, Naujwan Sabhas and Farmers' Association etc.
- (ii) Role of Gram Panchayats, Panchayat Samitis and Zila Parishads.
- (iii) Role of B.D.P.O. and other functionaries at the Block and village level in the execution of the various schemes for the development of rural areas.
- (iv) Role of District Rural Development Agencies (D.R.D.A.)
- (v) Role of Focal Points in the overall development of rural areas.
- (vi) Role of SFDA/MFAL agencies.

PART-II

III. Rural Industries

- (i) Development of the traditional skills in the rural artisans.
- (ii) Role of village and Khadi Board Commission for setting up village and cottage industries in the rural areas.
- (iii) Policy of the Government to encourage the rural people to set up their own small industries.

SEMESTER-II

TIME- 3 Hours

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

STRUCTURE OF THE QUESTION PAPER

1. There will be 24 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 five questions of 1 mark each. Answer to each should be in one word or one line. $5 \times 1 = 5$

5 short answer type Questions carrying 2 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. $5 \times 2 = 10$

Section B

This section will comprise of Part-I of the syllabus. 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 the syllabus. In this section, Eight Questions of 5 marks each will be set, whose answer should be given in 15-20 lines. $5 \times 8 = 40$

PART-I

IV. Role of Agriculture in Rural Development (with special reference to Punjab) Importance of agriculture for self-sustaining growth in the rural areas.

(i) Cropping Pattern in the State:-

Major Rabi and kharif crops (Food and Cereals) grown in State and their average yields as compared to other States.

(ii) Diversification of Agriculture:-

Rotation of Crops, Relay cropping, Multiple cropping, mixed cropping and dry farming.

(iii) Farm Size and Management

Characteristics of farms in the State; Farm size and their inadequacies in resources use. Consolidation of Holdings and Land Ceiling Legislation in the proper management of farms.

(iv) Green Revolution:-

Its basic components and achievements for increasing the agricultural production in the State. Role of Green Revolution in the Rural Development.

Part-II

V. Rural Finance & Credit Facilities

(i) The Problem of Indebtedness.

- (ii) Different sources of Rural Finance.
- (iii) The Role of Cooperative Credit Societies, Agricultural Land Development Banks, Co-operative Banks, NABARD, RBI and other Govt. agencies for the provision of finance to the rural people.

VI. Rural Storage & Marketing Facilities

- (i) Problem of storage of Agricultural produce in the rural areas. Warehousing arrangement by private and Government agencies.
- (ii) Location of Mandis in the rural areas. System of transportation of agricultural produce to the Mandis.
- (iii) Existing system of marketing of cash crops, cereals, vegetables and other crops in the rural areas. Role of Regulated and Unregulated Markets.
- (iv) Role of APEX Marketing Bodies i.e. MARKFED, MILKFED, MANDIKARAN BOARD, etc. in the State.
- (v) Role of the State Government to ensure the remunerative prices to the producers.

VII. Rural Employment

- (i) Problem of unemployment in the rural areas.
- (ii) Rural manpower as the major asset for rural development.
- (iii) Various employment programmes sponsored by the Central and State Governments for rural people with special reference to CSRE, NREP, TRYSEM and RLEGP etc.

**36. MEDIA STUDIES
SEMESTER-I**

TIME- 2½ Hours

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

STRUCTURE OF THE QUESTION PAPER

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 × 1 = 5
4. Part-II of the paper shall consist of 4 questions of 5 marks each, shall be set selecting two each from both group, Its answer shall be in paragraph or two in length. 4 × 5 = 20

5. Third part of the paper shall contain 3 questions of 10 marks each, atleast one chosen from each group and its answer shall run into 300 words minimum. 3 × 10 = 30

SYLLABUS (THEORY)
INTRODUCTION TO COMMUNICATION

Group - A

1. Communication : meaning, definition, approach, types : Intrapersonal, Interpersonal, Group or Public and Mass Communication.

Group-B

- II. Media of Communication : Body language, Spoken word, Printed word, Symbols and Pictures.
- III. Mass Media : Traditional, Print, Radio, Television and New media.

SEMESTER-II

TIME- 3 Hours

Theory : 65 Marks
I.A./CCE : 30 Marks
Practical : 25 Marks
Total : 120 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

There shall be 14 questions in all. In Part-II, 6 being of 5 marks each to be answered in paragraph type (totaling 30 marks). Other instructions are the same as in Semester-I.

VIVA VOCE (PRACTICAL)

1. Clipping File : The file prepared in accordance with syllabus shall be judged and assessed maximum for 10 marks.
2. Preparation of teleboard and news reading and viva questions out of topics mentioned in syllabus shall be assessed and marks shall be awarded out of 15 maximum.

SYLLABUS
NEWS MEDIA

Group - A

- I. Writing for newspaper : News Stories, editorial, articles, features, letters to editor.

II. Writing for magazines.

Group-B

III. Content of newspaper : News and its types, Views and its types, Advertisement and its types.

IV. Introduction to public relations.

VIVA VOCE (PRACTICAL)

Paper-II

1. Clipping File : Each student shall require to submit a clipping file consisting of 12 items, 2 each from following topics; Development news, political report, photo feature, middle, news analysis, advertisement.
2. Teleboard display and news reading
3. Viva : The examiner shall ask the candidate question on visit to news paper office and current affairs (national and regional) related to running academic session period.

37. PHYSICS

SEMESTER-1

TIME- 2½ Hours

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

		Marks
UNIT-I	Physical World and Measurement	10
UNIT-II	Kinetics	15
UNIT-III	Laws of Motion	15
UNIT-IV	Work, Energy and Power	15
Total		55

STRUCTURE OF QUESTION PAPER (THEORY)

- i) Question No. 1 to 9 will be of 1 mark each.
- ii) Question No. 10 to 17 will be of 2 marks each.
- iii) Question No. 18 to 22 will be of 3 marks each.
- iv) Question No. 23 to 25 will be of 5 marks each & there will be 100% internal choice.

SYLLABUS

(THEORY)

Unit I : Physical World and Measurement

Physics - scope and excitement; nature of physical laws; Physics, technology and society.

Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement, significant figures.

Dimensions of physical quantities, dimensional analysis and its applications.

Mathematical concepts of coordinate geometry and trigonometry.

Unit II : Kinematics

Frame of reference (inertial and non-inertial frames). Motion in a straight line: Position-time graph, speed and velocity.

Elementary concepts of differentiation and integration for describing motion.

Uniform and non-uniform motion, average speed and instantaneous velocity.

Uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion (graphical treatment).

Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity.

Unit vector: Resolution of a vector in a plane - rectangular components. Scalar and vector product of vectors. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion.

Unit III : Laws of Motion

Intuitive concept of force. Inertia. Newton's first law of motion; momentum and Newton's second law of motion; impulse: Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction. rolling friction.

Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road. vehicle on banked road).

Unit IV: Work, Energy and Power

Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.

Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-Conservative forces; elastic and inelastic collisions in one and two dimensions.

PRACTICAL SYLLABUS

Experiments

1. Use of Vernier Callipers
 - (i) To measure diameter of a small spherical/cylindrical body.
 - (ii) to measure dimensions of a given regular body of known mass and hence find its density.
 - (iii) to measure internal diameter and depth of a given beaker/calorimeter and hence find its volume.
2. Use of screw gauge
 - (i) to measure diameter of a given wire,
 - (ii) to measure thickness of a given sheet
 - (ii) to measure volume of an irregular lamina
3. To determine radius of curvature of a given spherical surface by a spherometer.
4. To find the weight of a given body using parallelogram law of vectors.
5. Using a simple pendulum, plot L-T and L-T₂ graphs. Hence find the effective length of second's pendulum using appropriate graph.
6. To study the relationship between force of limiting friction and normal reaction and to find co-efficient of friction between a block and a horizontal surface.
7. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and $\sin\theta$.

Activities

1. To make a paper scale of given least count, e.g. 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a jet of water with angle of projection.
6. To study the conservation of energy of a ball rolling down on inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

SEMESTER-II

TIME- 3 Hours
Time : 3 hours

Theory : 65 Marks
Practicals : 25 Marks
I.A./CCE : 30 Marks
Total : 120 Marks

		Marks
UNIT-I	Motion of system of Particles and Rigid Body	09
UNIT-II	Gravitation	09
UNIT-III	Properties of Bulk Matters	20
UNIT-IV	Thermodynamics	10
UNIT-V	Behavior of Perfect gas and Kinetic theory	07
UNIT-VI	Oscillation and Waves	10
Total		65

STRUCTURE OF QUESTION PAPER (THEORY)

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 PAPER (PRACTICAL)

Time : 3 hrs.

Total : 25 Marks

Two experiment	13
Record of Activities	3
Viva on Activities	3
Record of Experiments	3
Viva of Experiments	3
Total	25

SYLLABUS (THEORY)

Unit-I Motion of System of Particles and Rigid Body.

Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod.

Moment of a force, torque, angular momentum, conservation of angular momentum with some examples.

Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration.

Values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.

Unit-II Gravitation

Keplar's laws of planetary motion. The universal law of gravitation.

Acceleration due to gravity and its variation with altitude, depth and rotation of earth.

Gravitational potential energy; gravitational potential. Escape velocity, Orbital velocity of a satellite. Geo-stationary satellites.

Unit-III Properties of Bulk Matter

Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity, poisson's-ratio; elastic energy

Pressure due to a fluid column Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure.

Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Critical velocity. Bernoulli's theorem and its applications.

Surface energy and surface tension, angle of contact, excess of pressure, application of surface tension ideas to drops, bubbles and capillary rise.

Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, ideal gas laws, isothermal and adiabatic processes; anomalous expansion and its effect, specific heat: C_p , C_v -colorimetry; change of state-latent heat.

Heat transfer-conduction, convection and radiation, Blackbody radiation kirchhoff's law, absorptive and emissive powers and green house effect, thermal conductivity, Newton's law of cooling, Wain's displacement law, Stefan's law.

Unit-IV Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics.

Second law of thermodynamics: reversible and irreversible processes.

Heat engines and refrigerators.

Unit-V Behaviour of Perfect Gas and Kinetic Theory

Equation of state of a perfect gas, work done on compressing a gas.

Kinetic theory of gases. Assumptions, concept of pressure. Kinetic energy and temperature;

rms speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heat of gases: concept of mean free path, Avogadro's number.

Unit-VI Oscillations and Waves

Periodic motion - period, frequency, displacement as a function of time.

Periodic functions.

Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in S.H.M.-kinetic and potential energies: simple pendulum-derivation of expression for its time period: free, forced and damped oscillations (qualitative ideas only), resonance.

Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement-relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.

PRACTICAL (SEMESTER-II)

Experiments

1. To determine Young's modulus of elasticity of the material of a given wire.
2. To find the force constant of a helical spring by plotting graph between load and extension.
3. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and I/V.
4. To determine the surface tension of water by capillary rise method.
5. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
6. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
7. To determine specific heat of a given (i) solid (ii) liquid, by method of mixtures.
8. (i) To study the relation between frequency and length of a given wire under constant tension using sonometer.
(ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer.
9. To find the speed of sound in air at room temperature using a resonance tube by two-resonance positions.

Activities

1. To observe change of state and plot a cooling curve for molten wax.
2. To observe and explain the effect of heating on a bi-metallic strip.
3. To note the change in level of liquid in a container on heating and interpret the observations.
4. To study the effect of detergent on surface tension by observing capillary rise.

5. To study the factors affecting the rate of loss of heat of a liquid.
6. To study the effect of load on depression of a suitably clamped metre scale loaded.
 - (i) at its end (ii) in the middle.

38. CHEMISTRY

SEMESTER-1

TIME- 2½ Hours

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

DISTRIBUTION OF MARKS

Unit –I	Some Basic Concept of Chemistry	10
Unit-II	Structure of Atom	06
Unit-III	Classification of Elements and Periodicity in Properties	06
Unit-IV	Chemical Bonding and Molecular structure	07
Unit-V	Hydrogen	08
Unit-VI	S-Block Elements (Alkali and Alkaline Earth Metals)	08
Unit-VII	Organic Chemistry some Basic Principles and Techniques	10
	Total	55

STRUCTURE OF QUESTION PAPER (THEORY)

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:I Some Basic Concepts of Chemistry

General introduction: Importance and scope of chemistry. Historical approach to particulate nature of matter, laws of chemical combination. Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses. Mole concept and molar mass: percentage composition, empirical and molecular formula; chemical reactions, stoichiometry and calculations based on stoichiometry.

Unit II : Structure of Atom

Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thomson's model and its limitations, Rutherford's model and its limitations. Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, De Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p, and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

Unit III : Classification of Elements and Periodicity in Properties

Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii. Ionization enthalpy, electron gain enthalpy, electronegativity, valence, Nomenclature of elements with atomic number greater than 100.

Unit IV : Chemical Bonding and Molecular Structure

Valence electrons, ionic bond, bond parameters, covalent bond: Born Haber Cycle. Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory. resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, Molecular orbital theory of homonuclear and heteronuclear diatomic molecules(qualitative idea only), hydrogen bond.

Unit-V : Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides - ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide-preparation, properties, structure and use; hydrogen as a fuel.

Unit-VI : S Block Elements (Alkali and Alkaline earth metals)

Group 1 and Group 2 elements

General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens; uses.

Preparation and properties of some important compounds :

Sodium carbonate, sodium hydroxide and sodium hydrogen carbonate, biological importance of sodium and potassium.

CaO, CaCO₃ and industrial use of lime and limestone, biological importance of Mg and Ca.

Unit-VII : Organic Chemistry Some Basic Principles and Techniques

General introduction, methods of qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond:- inductive effect, electromeric effect, resonance and hyper conjugation.

Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carboanion; electrophiles and nucleophiles, types of organic reactions

SYLLABUS (PRACTICALS)

A. Basic Laboratory Techniques

1. Cutting glass tube and glass rod
2. Bending a glass tube
3. Drawing out a glass jet
4. Boring a cork

B. Experiments related to pH change

- (a) Any one of the following experiments:
- Determination of pH of some solutions obtained from fruit juices, varied concentrations of acids, bases and salts using pH paper or universal indicator.
 - Comparing the pH of solutions of strong and weak acid of same concentration.
 - Study the pH change in the titration of a strong base using Universal indicator.
- b) Study of pH change by common-ion effect in case of weak acids and weak bases.

D. Qualitative Analysis

Determination of one anion and one cation in a given salt

Cations- Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺, Mn²⁺, Ni²⁺, Zn²⁺, Co²⁺, Ca²⁺, Sr²⁺, Ba²⁺, Mg²⁺, NH₄⁺

Anions- CO₃²⁻, S²⁻, SO₃²⁻, SO₄²⁻, NO₂⁻, NO₃⁻, Cl⁻, Br⁻, I⁻, PO₄³⁻, C₂O₄²⁻, CH₃COO⁻

(Note: insoluble salts excluded)

D. Detection of nitrogen, sulphur, chlorine

PROJECTS

- Investigation of foaming capacity of different washing soaps and the effect of addition of carbonate on them.
- Study of the acidity of different samples of the tea leaves.

- Detefmination of the rate of evaporation of different liquids.
- Study of the effect of acids and bases on the tensile strength of fibres.

Note: Any other investigatory project, which involves about 10 period of work can be chosen with the approval of the teacher.

SEMESTER-II (THEORY)

TIME- 3 Hours

TIME- 3 Hours

Theory : 65 Marks
 Practical : 25 Marks
 I.A./CCE : 30 Marks
 Total : 120 Marks

DISTRIBUTION OF MARKS

Unit-I	Status of Matter: Gases and liquids	10
Unit-II	Thermodynamics	08
Unit-III	Equilibrium	10
Unit-IV	Redox Reaction	10
Unit-V	Some p- Block Elements general introduction to p-Block elements	10
Unit-VI	Hydrocarbons	10
Unit-VII	Environmental Chemistry	07
	Total	<u>65</u>

STRUCTURE OF QUESTION PAPER (THEORY)

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.

Marks: 25

1.	Volumetric Analysis	08
2.	Salt Analysis	06
3.	Content based experiment	06
4.	Class record and Viva	<u>05</u>

SYLLABUS (THEORY)

Unit-I States of Matter: Gases and Liquids

Three states of matter. Intermolecular interactions, types of bonding, melting and boiling points. Role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles' law, Gay Lussac's law, Avogadro's law. Ideal behaviour, empirical derivation of gas equation, Avogadro's number. Ideal gas equation. Derivation from ideal behaviour, liquifaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea)

Liquid State - Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

Unit-II Chemical Thermodynamics

Concepts of System, types of systems, surroundings. Work, heat, energy, extensive and intensive properties, state functions.

First law of thermodynamics - internal energy change (ΔU) and enthalpy change (ΔH), Hess's law of constant heat summation, enthalpy of : bond dissociation, combustion, formation, atomization, sublimation. Phase transformation, ionization, and solution.

Introduction of entropy as a state function, Gibbs energy change for spontaneous and nonspontaneous processes, criteria for equilibrium.

Second and third laws of thermodynamics.

Unit-III Equilibrium

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle; ionic equilibrium ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH, Henderson Equation. Hydrolysis of salts (elementary idea). Buffer solutions, solubility product, common ion effect (with illustrative examples).

Unit-IV Redox Reactions

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions in terms of loss and gain of electrons. .

Unit-V Some p-Block Elements

General introduction to p-Block Elements

Group 13 elements: General introduction, electronic configurations, occurrence. Variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; Boron- physical

and chemical properties, some important compounds: borax, boric acid, boron hydrides. Aluminium: reactions with acids and alkalis and uses.

Group 14 elements : General introduction, electronic configurations, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element, Carbon - catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides.

Important compounds of silicon and a few uses: silicon tetrachloride silicones, silicates and Zeolites, their uses and structure of silicates.

Unit-VI Environmental Chemistry.

Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants; acid rain, ozone and its reactions, effects of depletion of ozone layer; greenhouse effect and global warming - pollution due to industrial wastes: green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

Unit-VII Hydrocarbons

Classification of hydrocarbons

Alkanes Nomenclature isomerism, conformations (ethane only), physical properties, chemical reactions including halogenation, free radical mechanism, combustion and pyrolysis.

Alkenes - Nomenclature, structure of double bond (ethene) geometrical isomerism, physical properties, methods of preparation; chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties.

Methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.

Aromatic hydrocarbons: Introduction, IUPAC nomenclature: Benzene; resonance aromaticity : chemical properties: mechanism of electrophilic substitution. - nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation: directive influence of functional group in mono-substituted benzene; carcinogenicity and toxicity.

PRACTICAL SYLLABUS

A. Characterization and purification of chemical substances

1. Determination of melting point of an organic compound

2. Determination of boiling point of an organic compound
3. Crystallization of impure sample of anyone of the following: Alum, copper sulphate, Benzoic acid.

B. Chemical Equilibrium

One of the following experiments:

- a) Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either ions.
- b) Study the shift in equilibrium between $[\text{Co}(\text{H}_2\text{O})_6]^{2+}$ and chloride ions by changing the concentration of either of the ions.

C. Quantitative Estimation

- Using a chemical balance.
- Preparation of standard solution of oxalic acid.
- Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid.
- Preparation of standard solution of sodium carbonate.
- Determination of strength of a given solution of hydrochloric acid by titrating it against standard sodium carbonate solution.

PROJECT

Scientific Investigations involving A few suggested Projects

- Checking the bacterial contamination in drinking water by testing sulphide ion. Study of the methods of p.
- Testing the hardness, presence of iron Hydride, chloride etc. depending upon the regional variation in drinking water and the study of causes of pressure of these ions above permissible limit (if any).

39. BIOLOGY
SEMESTER-1

TIME- 2½ Hours

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

DISTRIBUTION OF MARKS

Unit –I	Diversity in Living	25
Unit-II	Structural Organisation in animals and Plants	30
	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 I : Diversity of Living Organisms

- **Diversity of living organisms**
 - What is living?
 - Concept of biodiversity.
- **Classification of living organisms**
 - Need for classification.
 - Three domains of life.
 - Five kingdoms of life and basis of five kingdom classification.
 - Lichens.
 - Virus and Virioids.
- Systematics and binomial nomenclature
 - Taxonomy & Systematics.
 - Concept of species and taxonomic hierarchy.
 - Binomial nomenclature.
 - Salient features and classification of Monera,
 - Protoctista (Protista) and Fungi into major groups
 - Salient features and classification of plants into major groups - Algae, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms. Three to five salient and distinguishing features of each category and at least two examples of each.
 - Angiosperms-classification upto class, characteristic features and examples.
 - Salient features and classification of animals - Major non chordate phyla and chordate classes. Three to five salient features and at least two examples.

- Tools for study of biodiversity -
Museums, Zogs, Herbaria, botanical gardens.

Unit 11: Structural Organisation in Animals and Plants

- Tissues in animals and plants.
- Morphology including modifications, microscopic anatomy and functions of different parts of flowering plants: Root, Stem, leaf, inflorescence, flower, fruit and seed. (To be dealt with along with the relevant practicals of the Practical Syllabus)
- Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an annelid (earthworm), an insect (cockroach), an amphibian (Frog). (Brief account only).

SYLLABUS (PRACTICALS)

A. List of Experiments

1. Study and describe three locally available common flowering plants from each of the following families (Solanaceae, Fabaceae and Liliaceae) including dissection and display of floral whorls and anther and ovary to show number of chambers. Types of root (Tap and Adventitious); Stem (Herbaceous and woody); Leaf (arrangement, shape, venation, simple and compound).
2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).
3. Study parts of a compound microscope.
4. Study of the specimens and identification with reasons-Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, Yeast, liverwort, moss, fern, Pine, one monocotyledonous plant and one dicotyledonous plant and one lichen.
5. Study of specimens and identification with reasons-Amoeba, Hydra, Liverfluke, Ascaris, leech, earthworm prawn, silkworm, honeybee, snail, starfish, shark, Rohu, frog, lizard, pigeon and rabbit.
6. Study of tissues, and diversity in shapes and sizes of plant and animal cells (e.g palisade cells, guard cells, parenchyma, collenyma, sclerenchyma, Xylem, Phloem, Squamous epithelium, muscle fibers and mammalian blood smear) through temporary/permanent slides.
7. Study of different modifications in root, stem and leaves.
8. Study and identification of different types of inflorescence.

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	Cell Structure and Functions	20
Unit-IV	Plant Physiology	21
Unit-V	Human anatomy & Physiology	24
	Total	<u>65</u>

STRUCTURE OF QUESTION PAPER (THEORY)

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.

Marks: 25

1.	Experiment and Spotting	15
2.	Record of one investigatory and Viva based on the project	05
3.	Class record and Viva based on experiments	05
	Total	<u>25</u>

SYLLABUS (THEORY)

Unit-I CELL STRUCTURE AND FUNCTION

- Cell and its three major parts - cell membrane, cytoplasm, nucleus.
- Cell theory and cell as the basic unit of life.
- Structure of a prokaryotic and eukaryotic cell.
- Plant cell and animal cell.
- Cell envelope, cell membrane, cell wall.
- Cell organelles - Structure and function: Mitochondria, golgibodies, endoplasmic reticulum, ribosomes, lysosomes, vacuoles, plastids, microbodies.
- Cytoskeleton, cilia, flagella, centrioles (ultrastructure and function).
- Nucleus - nuclear membrane, chromatin, nucleolus.
- Chemical constituents of living cells.

- Biomolecules - Structure and function of proteins, carbohydrates, fats, nucleic acids.
- Enzymes - types, properties, enzyme action.
- Cell division - Cell cycle, significance of, and differences between mitosis and meiosis.

Unit-II Plant Physiology

- **Movement of water, food, nutrients and gases**
 - Absorption of water, gases and nutrients.
- **Cell to cell transport**
 - Diffusion, facilitated diffusion, active transport.
- **Plant - water relations**
 - Imbibition, water potential, osmosis, plasmolysis.
- **Long distance transport**
 - Apoplast, symplast, root pressure, transpiration pull.
- **Transpiration and Guttation**
 - Opening and closing of stomata.
 - Role of K^+ ions.
- **Uptake of mineral ions and their translocation**
 - Transport through xylem and phloem.
- **Plants and mineral nutrition**
 - Essential minerals, macro- and micronutrients and their role.
 - Deficiency symptoms.
 - Mineral toxicity
 - Methods to study mineral nutrition - hydroponics.
 - Nitrogen metabolism - Nitrogen cycle, biological nitrogen fixation.
- **Plant Respiration**
 - Exchange of gases.
 - Cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic).
 - Energy relations - Number of ATP molecules generated.
 - Amphibiotic pathways.
 - Respiratory quotient of nutrients.
- **Photosynthesis**
 - Autotrophic nutrition.

- Site of photosynthesis.
- Photosynthetic pigments (Elementary idea).
- Photochemical and biosynthetic phases of photosynthesis.
- Cyclic and non cyclic photophosphorylation.
- Chemiosmotic hypothesis.
- Photorespiration.
- C₃ and C₄ pathways.
- Factors affecting photosynthesis.
- Law of limiting factors.
- **Plant growth and development**
 - Phases of plant growth and plant growth rate.
 - Conditions of growth.
 - Differentiation, dedifferentiation and redifferentiation.
 - Sequence of developmental process in a plant cell.
 - Growth regulators-auxin, gibberellin, cytokinin, ethylene, ABA.
 - Photomorphogenesis including brief account of phytochromes. (Elementary idea)
 - Seed germination.
 - Seed dormancy.
 - Vernalisation.
 - Photoperiodism

Unit-III Human Physiology

- **Digestion and Absorption**
 - Human alimentary canal and Digestive glands.
 - Role of digestive enzymes and gastrointestinal hormones
 - Peristalsis.
 - Digestion, absorption and assimilation of proteins, carbohydrates and fats.
 - Calorific value of proteins, carbohydrates and fats.
 - Egestion.
 - Nutritional and digestive disorders - P E M, indigestion, constipation, vomiting, jaundice.
- **Breathing and Respiration**
 - Respiratory organs in animals. (Recall only)
 - Respiratory system in humans.
 - Mechanism of Breathing and its regulation in humans.

- Exchange of gases, transport of gases and regulation of respiration in humans.
- Respiratory volumes.
- Disorders related to respiration - Asthma, Emphysema, Occupational Respiratory disorders.
- **Body fluids and Circulation**
 - Composition of blood, Blood groups, Coagulation of blood.
 - Composition of Lymph and its function.
 - Human circulatory system.
 - Structure of human heart and blood vessels.
 - Cardiac cycle, Cardiac output, ECG.
 - Double circulation.
 - Regulation of cardiac activity.
 - Disorders of circulatory system - Hypertension, Coronary artery disease, Angina pectoris, heart failure.
- **Excretory products and their elimination**
 - Modes of excretion - Ammonotelism, ureotelism, Uricotelism.
 - Human excretory system-structure and function.
 - Urine formation, Osmoregulation.
 - Regulation of kidney-function Renin-angiotensin, Antinatriuretic factor, ADH and Diabetes insipidus.
 - Role of other organs in excretion.
 - Disorders - Uraemia, Renal failure, Renal calculi, Nephritis.
 - Dialysis and artificial kidney.
- **Locomotion and Movement**
 - Types of movement - ciliary, flagellar, muscular.
 - Skeletal muscle - contractile proteins and muscle contraction.
 - Skeletal system and its functions. (To be dealt with the relevant practical of Practical Syllabus)
 - Joints.
 - Disorders of muscular and skeletal system – Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis Gout.
 - **Neural control and coordination**
 - Neuron and nerves.
 - Nervous system in humans.

- Central Nervous system, Peripheral Nervous system and Visceral Nervous system.
- Generation and conduction of nerve impulse.
- Reflex action.
- Sense organs.
- Sensory Perception.
- Elementary structure and function of eye and ear and general idea of other sense organs.
- **Chemical coordination and regulation**
 - Endocrine glands and hormones.
 - Human endocrine system - Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads.
 - Mechanism of hormone action (Elementary idea).
 - Role of hormones as messengers and regulators.
 - Hypo- and hyperactivity and related disorders. (Common disorders eg. Dwarfism, Acromegaly, Cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease).

SYLLABUS (PRACTICALS)

1. Study of osmosis by potato osmometer.
2. Study of plasmolysis in epidermal peels (e.g. Rhoeco leaves).
3. Study of distribution of stomata in the upper and lower surface of leaves.
4. Comparative study of the rates of transpiration in the upper and lower surface of leaves.
5. Test for the presence of sugar, starch, protein and fats. To detect them in suitable plant and animal materials.
6. Separation of plant pigments through paper chromatography.
7. To study the rate of respiration in flower buds/leaf tissue and germinating seeds.
8. To test the presence of urea in urine.
9. To detect the presence of sugar in urine/blood sample
10. To detect the presence of albumin in urine.
11. To detect the presence of bile salts in urine.
12. Study of imbibition in seeds/raisins.
13. Observation and comments on the experimental set up for showing.
 - a. Anaerobic respiration

- b. Phototropism
 - c. Apical bud removal
 - d. Suction due to transpiration
14. Study of human skeleton and different types of joints.
 15. Study of external morphology of earthworm, cockroach and frog through models.
 16. Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.

40. GEOLOGY

SEMESTER-I

Time : 2¹/₂ hrs.

Theory Paper : 55 Marks

I.A./CCE : 25 Marks

Total : 80 Marks

STRUCTURE OF QUESTION PAPER

1. There will be 24 questions in all. All the questions will be compulsory.
2. Questions no. 1 to 10 are objective type, each question will carry 1 mark. Answer of each question should be in one word or about one line. 1 x 10 = 10
3. Questions no. 11 to 15 will carry 2 marks each. Answer of each question should be in about 20-25 words. 2 x 5 = 10
4. Questions no. 16 to 20 will carry 3 marks each. Answer of each question should be in about 50-60 words. 3 x 5 = 15
5. Questions no. from 21 & 24 will carry 5 marks each. Answer of each question should be in about 160-175 words. 5 x 4 = 20

SYLLABUS

PART-A

Geology:

Aims of Geology, historical development of Geo science, its branches and their outline.

A general outline of the following:

The Earth:

Its setting, part of the solar system, The origin of the solar system and the earth. The earth's major features-The ocean basins, the continents, Origin of the continents and ocean basins.

PART-B

The Earth's Crust

Nature, material of the crust, minerals, classification of the some common rock-forming minerals, Rocks: Igneous, sedimentary and metamorphic rocks, common primary features and structure of rocks, the phenomenon of igneous activity, volcanoes, varieties of volcanoes.

Earthquakes

Causes of earthquake, earthquake waves. Some Indian examples. Nature of the earth's structure - the crust, the mantle and core. Summary of the physical properties of the earth's parts.

Uniformitarianism

Principles of Stratigraphy, Geological Time-scale, Indexfossils, Correlation Homotaxis. Facies concept in stratigraphy, palaeography. Basic idea about geological maps.

PRACTICAL

1. Identification of some important minerals like quartz, feldspars, mica, magnetic, copper ores etc. in landspecimen.

SEMESTER-II

Time : 3 hrs.

Theory Paper : 65 Marks

I.A./CCE : 30 Marks

Practical : 25 Marks

Total : 120 Marks

STRUCTURE OF QUESTION PAPER

1. There will 29 questions in all. All the question will be compulsory.
2. Questions no. from 1 to 10 are objective type, each question will carry 1 mark each. Answer of each question should be in one word or about one line. $1 \times 10 = 10$
3. Questions no. from 11 to 20 will carry 2 marks each. Answer of each question should be in about 20-25 words. $2 \times 10 = 20$
4. Questions no. from 21 to 25 will carry 3 marks each. Answer of each question should be in about 50-65 words. $3 \times 5 = 15$
5. Questions no. from 26 to 29 will carry 5 marks each. Answer of each question should be in about 160-175 words. $5 \times 4 = 20$

SYLLABUS PART-A

A general outline of the following:

The Geological force : Internal forces, Earth Movement, External forces. The Hydrological cycle, weathering and erosion, formation of soils and their types and utility.

The Force of the wind : Movement of the atmosphere, wind erosion and deposition by wind.

The Ground water : Principles of ground water, origin and Occurrence/movement of the ground water aquifers and wells, Geologic work of groundwater.

PART-B

River at Work : Run off, factors controlling run off, drainage system and system patterns. Erosion and transportation by running water. Changes in river with time. River deposits. The cycle of erosion with Indian examples.

- Land sculptures by glaciers. Growth and movement of glaciers; Kinds of glaciers with some Indian examples, glacier regiment and former glacier regiment and former glaciers. Geologic work of glaciers.
- Wave action and shore lines. Mechanism of wave action, geologic work of wave deposition. Shorelines and sea level.
- Types of fossils, modes of preservation, uses of fossils, brief idea about important fossil groups such as branchiopods, molluscs, trilobites, graptolites, echinoderms. Some idea about plant fossils.

PRACTICAL

- (ii) Identification of important fossils like Terebratula. Spirifer, Producta, Trionia, pecten, Murex, Trochus, Belemnites. Ceratites, Calymene, phacops, mono, graptus, Microster.
- (iii) Determination of specific gravity and study of rocks in land specimen. Granite, sandstone, quartzite, limestone, marble, basalt, etc. Identification of important characters.
- (iv) Study of geological map and identification of various features shown on topographical sheets and relief of oceans and continents.

PRACTICAL (MAP WORK)

Time : 3 hrs.

25 : Marks

STRUCTURE OF THE QUESTION PAPER

1. Examination in map work will be conducted by the practical examiner in batches of not more than 20 candidates each. The practical examiner will set the question paper on the spot and will also evaluate the answer sheets.
2. Five minerals in hand specimen will be given to student for identification. The student will identify three minerals out of these. The question will carry three marks.
3. 10 fossils will be given to the students for identification. Student will identify 5 fossils out of these. This question will carry 5 marks.
4. Four rock specimen be given to the students. Students will identify two out of these four, and also write specific gravity and important character of these two minerals. The question will carry 6 marks. 3+3 = 6
5. The examiner will give topographical sheets & Geological maps. The students will identify various feature, and relief of oceans and continents. This question will carry 6 marks. 3+3 = 6
6. 5 marks are reserved for note book and record.

41. BIOTECHNOLOGY SEMESTER-I

Time : 2½ hrs.

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

STRUCTURE OF THE 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. $5 \times 3 = 15$

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.

SYLLABUS

UNIT-1. INTRODUCTION TO BIOTECHNOLOGY

Fundamentals of Biochemical Engineering
Biotechnology and Society.

UNIT-II. BIOMOLECULES

Building Blocks of Biomolecules-Structure and dynamics.
Structures and function of Macromolecules.
Biochemical Techniques.

PRACTICAL

Note:- Every students is required to do the following experiments in the academic session. List of Experiments (Numbering is according to syllabus).

1. Preparation of buffers and pH determination.
2. Sterilization techniques (Wet and Dry Sterilization, Chemical Sterilization and Ultra filtration.
3. Media preparation (Solid and Liquid L.B. medium)
4. Isolation of bacteria from curd and staining of bacteria.
5. Determination of bacterial growth curve.
14. Isolation of milk protein (casein).
15. Estimation of protein by Burette method.

SEMESTER-II

Time : 3 hrs.

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

STRUCTURE OF THE QUESTION PAPER (THEORY)

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. $3 \times 7 = 24$
6. Question nos. 28-30 are long answer type questions carrying 5 marks each. Answer to each question will be in 80-100 words. $3 \times 5 = 15$
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

UNIT-III. CELL AND DEVELOPMENT

The basic unit of life
Cell Growth and Development
Cellular Techniques

UNIT-IV. GENETICS AND MOLECULAR BIOLOGY

Principles of Genetics
Genome Function
Genetical Techniques

PRACTICAL

Note:- Every students is required to do the following experiments in the academic session. List of Experiments (Numbering is according to syllabus).

6. Study of various stages of mitosis and calculation of mitotic index.
7. Preparation of Karyotype.
8. Cell viability assay (Using Evans blue stain)
9. Cell counting (Using haemocytometer)
10. Determination of blood groups.
11. Isolation of genomic D.N.A.
12. Detection of D.N.A. by gel electrophoresis.
13. Estimation of D.N.A.
14. Assaying the enzyme acid phosphate.

42. COMPUTER APPLICATION SEMESTER-I

ਸਮਾਂ : 2½ ਘੰਟੇ

ਲਿਖਤੀ : 55 ਅੰਕ
ਸੀ.ਸੀ.ਈ./ਇੰਟ. ਅਸੈਸ. : 25 ਅੰਕ
ਕੁੱਲ : 80 ਅੰਕ

ਅਗਵਾਈ ਲੀਹਾਂ 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 10 ਤੱਕ 1-1 ਅੰਕ ਦੇ 10 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ
3. ਭਾਗ-ਅ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 11 ਤੋਂ 15 ਤੱਕ 3-3 ਅੰਕ ਦੇ 5 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ ।
4. ਭਾਗ-ੲ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 16 ਤੋਂ 18 ਤੱਕ 10-10 ਅੰਕ ਦੇ 3 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।

THEORY

Unit-INTRODUCTION TO PROGRAMMING IN C++

Introduction to Object Orientation

Object Oriented Programming

Differences between structured and object oriented language.

Introduction to C++ Language.

Program Structure, Program Design and Implementation Issues.

C++ character set (Letters, Digits, Special symbols, other, characters)

C++ Tokens (Identifiers, Keywords, Constants, Operators).

Structure of a C++ program (including files, declaration of an object, main function).

Header Files-<lostrem.h>, <stdio.h>

Using of I/O operators.

Basic commands of editor

Interpretation Compilation, Linking and Execution of programs.

Object declared as Classes, Encapsulation, Data hiding, Inheritance, Polymorphism.

UNIT-II DATA TYPES, VARIABLES AND CONSTANTS

Concept of Data Types

Data type modifiers

Built in data types: void, char, int, float and double.

Constants, integer Constants, Character Constants, Floating point Constants, String Constants.

Variables: Rules for formation of Identifiers, Declaration of Variables.

Access modifier constant and its Types; signed, unsigned, short, long.

UNIT-III OPERATORS AND EXPRESSIONS

Definitions of Operators and Expressions

Arithmetic operators (-, +, *, /) Modules operator (%)

Unary operator (-, +)

Increment and Decrement Operators (--), (++)

Relational Operators (>, >=, <, <=, !=)

Logical Operators (&&, ||)

Ternary Operators

Conditional Expressions

Precedence of Operators

Type conversion in Expression: Automatic type Conversion.

Assignment operators and expression: C++ shorthands (+=, -=, &=, /=, %=)

Variable Assignment, type and compatibility.

UNIT-IV CONTROL STATEMENTS

Compound statements or blocks using ()

Conditional statements: Selection statements:

If-else statements, nested if

Switch & Switch-default statement

Simple Control statements

Break Statements

Exit () function

Iteration statements

Loops & Nested loops

While statement, do while statement

Console I/O FUNCTIONS

Header Files : `stdio.h`, `getc ()`, `putc()`, `gets ()` and `puts ()` functions.

UNIT-VIII THE INTERNET

What is the Internet?

The Information Highway

The Global community

Communicating on the Internet

Accessing information on the Internet

Exchange Documents and Files

Business on the Internet

Domain names, E-mail connections

Setting up a web site

Web server hardware

PRACTICAL

All the relevant Practical Exercises will be based upon the relevant units of the theory syllabus.

SEMESTER-II

ਸਮਾਂ : 3 ਘੰਟੇ

ਲਿਖਤੀ : 65 ਅੰਕ

ਸੀ.ਸੀ.ਈ./ਇੰਟ. ਅਸੈਸ. : 30 ਅੰਕ

ਪ੍ਰਯੋਗੀ : 25 ਅੰਕ

ਕੁੱਲ : 120 ਅੰਕ

ਅਗਵਾਈ ਲੀਹਾਂ 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 11 ਤੱਕ 1-1 ਅੰਕ ਦੇ 11 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ
3. ਭਾਗ-ਅ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 12 ਤੋਂ 19 ਤੱਕ 3-3 ਅੰਕ ਦੇ 8 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ ।
4. ਭਾਗ-ੲ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ. 20 ਤੋਂ 22 ਤੱਕ 10-10 ਅੰਕ ਦੇ 3 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 ਸੈਮੈਸਟਰ-II ਲਈ ਨਿਰਧਾਰਤ ਪਾਠ ਕ੍ਰਮ ਦਾ ਪੂਰਕ ਹੋਵੇਗਾ।

ਅਗਵਾਈ ਲੀਹਾਂ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

ਸਮਾਂ : 3 ਘੰਟੇ

ਅੰਕ : 25

1. ਪ੍ਰੋਗਰਾਮਿੰਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨ ਨੂੰ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਪ੍ਰੋਗਰਾਮ ਦੇ ਅੰਕ ਐਲਗੋਰਿਦਮ ਆਊਟਪੁਟ ਅਤੇ ਡੋਕੂਮੈਂਟੇਸ਼ਨ ਵਿੱਚ ਵੰਡੇ ਜਾਣਗੇ। 5 ਅੰਕ
 2. ਪ੍ਰੋਜੈਕਟ ਵਰਕ 5 ਅੰਕ
ਪ੍ਰੋਜੈਕਟ ਰੋਜ਼ਾਨਾ ਜਿੰਦਗੀ ਵਿੱਚ ਆਉਣ ਵਾਲੀ ਕਿਸੇ ਵੀ ਮੁਸ਼ਕਲ ਤੇ ਹੋ ਸਕਦਾ ਹੈ।
 - ਪ੍ਰੋਗਰਾਮਿੰਗ ਸਟਾਈਲ, ਸਟਰਕਚਰਡ ਡਿਜ਼ਾਈਨ 2 ਅੰਕ
 - ਯੂਜ਼ਰ ਫਰੈਂਡਲੀ ਇੰਨਪੁੱਟ ਆਊਟਪੁੱਟ ਅਤੇ ਓਨਲਾਈਨ ਹੈਲਪ 2 ਅੰਕ
 - ਡੋਕੂਮੈਂਟੇਸ਼ਨ 1 ਅੰਕ
 3. ਡਾਟਾਬੇਸ ਕੰਨਸੈਪਟ 5 ਅੰਕ
 4. ਵਾਇਵਾ ਵੇਸ 5 ਅੰਕ
 5. ਪ੍ਰੈਕਟੀਕਲ ਰਿਕਾਰਡ ਫਾਈਲ 5 ਅੰਕ
- ਪ੍ਰੋਗਰਾਮ ਫਾਈਲ ਵਿੱਚ ਘੱਟੋ ਘੱਟ 20 ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰੋਗਰਾਮਿੰਗ ਦੇ ਅਧਾਰਿਤ ਹੋਣੇ ਚਾਹੀਦੇ ਹਨ ਅਤੇ ਪੰਜ ਡਾਟਾਬੇਸ ਕੰਨਸੈਪਟ ਤੇ ਹੋਣੇ ਚਾਹੀਦੇ ਹਨ।

THEORY

UNIT-V STRUCTURED DATA TYPE : ARRAY

Declaration of Array
One dimensional array
Nature of Subscripts
Two dimensional array
Array of strings
Array initialization
Multi Dimensional Array

UNIT-VI FUNCTIONS

Defining a function
Function Prototype
Objective of using function prototype
Accessing a function
Passing Arguments to a function

Specifying argument data types
Default arguments
Constant arguments
Function call by value
Call by reference
Parameters passing by reference
Return void
Returning values and their types
Calling functions with arrays
Scope rules of functions, and variables
Local and Global variables.

UNIT-III STANDARD LIBRARY FUNCTIONS AND HEADER FILES

Header files
String.h Math.h
Standard all functions
Charada and strings related functions
Isalnum (), isalpha (), isdigit (), islower (), isupper (), tolower (), toupper (), strepy (), strecat (), strlen ().
Mathematical function
Fabs (), log (), pow (), sqrt (), sin (), cos (), abs ().

PRACTICAL

All the relevant Practical Exercises will be based upon the relevant units of the theory syllabus

43. ELEMENTS OF ELECTRONIC ENGINEERING SEMESTER-I

Time : 2 hrs.

**Theory : 30 Marks
CCE/I.A. : 10 Marks
Practicals : 40 Marks
Total : 80 Marks**

THEORY STRUCTURE OF QUESTION PAPER

Eight questions of 5 marks each will be set in the question paper. First question will be of objective type, consist of five parts one mark each and it will be compulsory. Students are required to be attempt any five questions from remaining seven questions. A question may consist of more than one part. The question paper will be evenly distributed from the syllabus prescribed for Semester-I.

SYLLABUS

1. Introduction to semi-conductors and their symbolic representation.
2. Introduction to integrated circuits.
3. Advantages and limitations of integrated circuits.

SEMESTER-I PRACTICAL

STRUCTURE OF QUESTION PAPER

**Time: 3Hrs
marks**

Max : 40

The description of marks will be as follows:

- | | | |
|----|--------------------------|----------|
| 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

PRACTICAL

1. Classification, description and use of soldering iron, soldering and desoldering. Do's and Don'ts.
2. Assembly of the power supply (i) Full wave rectification (ii) Using I.C. 723.
3. Assembly of regulated power supply (i) Full wave (ii) using I.C. 723.
4. Verification of Ohm's law. Kirehoff law.

SEMESTER-II

Time : 2 hrs.

**Theory : 40 Marks
CCE/I.A. : 20 Marks
Practicals : 60 Marks
Total : 120 Marks**

THEORY STRUCTURE OF QUESTION PAPER

Eleven questions of 5 marks each will be set in the question paper. First question will be of objective type, consist of five parts one mark each and it will be compulsory. Students are required to be attempt any seven questions from remaining ten questions. A question may consist of more than one part. The question paper will be evenly distributed from the syllabus prescribed for Semester-II.

SYLLABUS

5. Introduction to Electronic Components.

- (i) Resistors
- (ii) Capacitors
- (iii) Transistors
- (iv) Diodes
- (v) Coils
- (vi) Transformers
- (vii) IFT's
- (viii) P.C.B's

6. Introduction to Digital Electronics

- (i) Number system, their conversion
- (ii) Basic Boolean Algebra
- (iii) Basic, Logic, circuits and their symbols.
OR, AND, NOT, NAND, NOR, EX-OR.

7. Introduction to Computer and Microporcessor

8. Introduction to TV Receivers and Transmitters.

9. Fundamentals of measuring instruments.

- (i) Voltmeter
- (ii) Ammeter
- (iii) Multimeter
- (iv) Oscilloscopes.

PRACTICAL

Time: 3 Hrs

SRUCTURE OF QUESTION PAPER

Marks: 60

The distribution of marks will be as follows:

- | | | |
|----|--------------------------|----------|
| 1. | Viva -voce | 10 Marks |
| 2. | Note book/Sessional work | 10 Marks |
| 3. | Actual Performance | 40 Marks |

(a) Major Practical:

(25 Marks)

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:

(15 Marks)

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)

5. Assembly of various projects from I.C. 555.
6. Assembling an amplifier, oscillator and Radio receiver using Transistors and I.C.
7. Checking the validity of the undermentioned gates.

OR

AND

NOT

NAND

NOR

EX OR

8. Measurements of A.C.; D.C. Current using voltmeter, ammeter and multimeter.
9. Use of computer and microprocessor.

**44. BUSINESS STUDIES-I
(COMMERCE GROUP)
PAPER - I
SEMESTER - I**

Time = 2½ Hours

Theory : 40 Marks
I.A./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 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

FOUNDATION OF BUSINESS

UNIT-1: NATURE AND PURPOSE OF BUSINESS

- (a) Concept and characteristics of business.
- (b) Business profession and employment-distinctive features.
- (c) Objectives of business-economic, social and human.
- (d) Business risks-nature and causes.
- (e) Role of profit in business.
- (f) A brief outline of the evolution of business activities in India.

UNIT-2: STRUCTURE OF BUSINESS

- (a) Classification of business activities, industry and commerce.
- (b) Industry and types: Primary and Secondary.
- (c) E-commerce-meaning, oppertunities and benefits, resources required for successful e-commerce implementation, security and safety for business transactions.
- (d) Outsourcing of services: Nature, need and types, financial services, advertising, courier services, customer support services.

UNIT-3: SERVICE SECTOR AND BUSINESS

- (a) Banking; Types of Banks and Functions of Commercial Banks.
- (b) Insurance; Principles, Types: life and general, fire and marine and insurance of other risks, health insurance, fidelity insurance.
- (c) Communication: postal & telecommunication.
- (d) Warehousing: types and functions.

PART-II CORPORATE ORGANISATION, FINANCE AND TRADE

UNIT-4: FORMATION OF A COMPANY

- a) Stages in the formation of the company.
 - Promotion
 - Incorporation
 - Commencement of Business

UNIT-5. INTERNAL TRADE

- a) Meaning and types.
- b) Wholesale trade-functions and services.
- c) Retail trade organisation: meaning, types, features, merits and demerits.
 - Itinerant and fixed shop.
 - Departmental stores, chain shop, mail order business, franchise.
 - Consumers Co-operative Store (including super bazar).
- d) Direct Marketing, tele-marketing, internal marketing.

SEMESTER - II

Time : 3 Hours

Theory: 65 Marks

I.A./CCE : 25 Marks
Total : 90 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. 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 question of 7 marks with internal choice will be set. Answer limit 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 question of 7 marks with internal choice will be set. Answer limit should be 2-3 pages.

SYLLABUS

PART-I

FOUNDATION OF BUSINESS

UNIT-1: SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS.

- (a) Concept of social responsibility.
- (b) Case for social responsibility and human rights.
- (c) Responsibility towards Consumers, government and Community in general.
- (d) Business and Environment Protection.
- (e) Business Ethics : Concepts and Elements.

UNIT-2: FORMS AND FORMATION OF BUSINESS ENTERPRISES

- (a) Meaning, features, merits and limitations of following forms:-
 - Sole proprietorship.
 - Joint Hindu family business.
 - Partnership-partnership deed (main clauses), types of partners and partnership formation, registration.
 - Co-operative Societies.
 - Company; types of companies-private, public and deemed public company, privileges of private company.
- (b) Choice of form of business enterprise.
- (c) Factors to be considered for starting a business.
- (d) Scope for setting up small business enterprises.

UNIT-3: SECTORAL ORGANISATION OF BUSINESS

- (a) Meaning, features, merits and limitations of following:
 - Private sector, public sector and joint sector.
- (b) Forms of public sector enterprises:
 - Departmental Undertaking.
 - Co-operative Organisation.
 - Government company.
- (c) Global Enterprise (Multi National Companies).

PART-II

CORPORATE ORGANISATION, FINANCE AND TRADE

UNIT-4: SOURCES OF BUSINESS FINANCE

- a) Nature and Significance
- b) Sources and finance
 - i) Equity and Preference Shares

- ii) Debentures/Bonds-types; (secured, unsecured, convertible, non-convertible).
- iii) Retained profits.
- iv) Public deposits.
- vi) Loan from financial institutions.
- c) International Sources : GDR's, FDI.

UNIT-5 : EXTERNAL TRADE

- a) Nature and importance.
- b) Meaning of export promotion.
- c) Incentives available.
- d) Export-Import Procedure and Documentation.
- e) Nature and importance of Export Processing Zones and Special Economic Zones (SEZ).

45. ACCOUNTANCY-I
PAPER - II
SEMESTER-I

Time = 2¹/₂ Hours

Theory : 40 Marks
I.A./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 I Introduction to Accounting

- Accounting-meaning, objectives, Accounting as source of information, internal and external users of Accounting information and their needs, advantages and limitations of Accounting, Difference between book-keeping and Accountancy.
- Qualitative characteristics of accounting information-reliability, relevance, understandability and comparability.

- Basic Accounting terms-Asset, liability, capital, expense, income, expenditure, Revenue, Debtors, Creditors, Goods, Cost, Gain, Stock, Purchase, Sales, Loss, Profit, Voucher, Discount: Cash and Trade Discount, Transaction, Drawings, Equity.

Unit-II: Theory Base of Accounting

- Accounting Concepts: Entity Money measurement, Going concern, Accounting period, Cost concept, Dual aspect, revenue Recognition (realisation), Matching, Accrual.
- Accounting Conventions-Full Disclosure, consistency, Conservatism, Materiality, Objectives.
- Accounting Standards-meaning, nature, need and list of Indian accounting standards.
- Accounting Mechanism-Single entry and double entry.
- Accounting Cycle-from recording of business transaction to preparation of trial balance and final accounts.
- Bases of Accounting-Cash Basis, Accrual Basis.

Unit-III: Recording of Business Transactions

- Voucher and Transactions: Origin of Transactions-source documents and vouchers, Preparation of voucher; Accounting equation approach-meaning and analysis of transaction using Accounting Equation; Rules of debit and credit.
- Recording of transactions: Books of original entry-Journal, Special Purpose Books: (i) Cash Book-Simple, Cash book with Bank column and petty cash book, (ii) Purchase Book, Sales Book, Purchase returns book, Sales return book, Bill receivable book. Books payable book; Ledger meaning, utility, format; posting from journal and subsidiary books; Balancing of Accounts.

Unit-IV: Trial Balance and Rectification of Errors

- Trial-Balance; meaning, Objectives, advantages and methods of preparation.
- Errors: Types of errors; errors affecting Trial Balance; errors not affecting Trial Balance.
- Detection and Rectification of errors (one sided and two sided) use of suspense account.

SEMESTER-II

Time : 3 Hours
Marks

Theory : 45

Practical : 25 Marks
I.A./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.
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 each.
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 1-2 pages.
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 each.
11. The Use of non-programmable simple calculator is allowed.

PROJECT WORK

Time Allowed: 1½ 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

SYLLABUS

Unit-I: Depreciation, Provisions and Reserves

- Depreciation: Meaning and need of charging depreciation, factors affecting depreciation, methods of depreciation-straight Line method, Written down value method (excluding change in method), Method of recording depreciation charging to asset account, creating provision for depreciation /accumulated depreciation account; Treatment of disposal of asset.
- Provision and Reserves: Meaning, importance, difference between provisions and reserves, type of reserve; Revenue reserve, capital Reserve, General reserve, Specific reserve and secret reserves.

Unit-II: Bank Reconciliation statement

- Meaning, need and Preparation, Correct Cash Balance.

Unit-III: Accounting for bills of exchange Transaction

- Bills of exchange and Promissory Note: definition, feature, parties, specimen and distinction.
- Important Terms: Term of bill, Concept of accommodation bill, Days of Grace, Date of Maturity, Bill at Sight, Bill after Date, Negotiation, Endorsement, Discounting of bill.

Dishonor, Retirement and renewal of a bill, insolvency of acceptor.

- Accounting treatment of bill transaction.

Unit-IV: Financial Statements

- Financial Statements: meaning and objectives.
- Distinction between Capital Expenditure and revenue expenditure.
- Balance Sheet: Need, Grouping, marshaling of assets and liabilities, vertical presentation of Financial Statement.

- Adjustments in preparation of financial statements with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, managers commission,
- Preparation of trading and profit & Loss Account and Balance Sheet of Sole Proprietorship.

Unit-V: Computer in Accounting

- Introduction to Computer and Accounting Information System (AIS)
- Applications of computers in accounting:- Automation of accounting process, designing accounting reports, MIS reporting data exchange with other information systems.
- Comparison of accounting processes in manual and computerized accounting, highlighting advantages and limitation of automation.
- Sourcing of accounting system: readymade and customized and tailor made accounting systems. Advantages and disadvantages of each option.

Unit-VI: Accounting and Database System

- Accounting and Database Management System.
- Concept of Entity and Relationship: Entities and relationships in an Accounting System:

Designing and creating Simple Tables, Forms, Queries and Reports in the context of Accounting System.

46. BUSINESS ECONOMICS & QUANTITATIVE METHODS-I (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 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 question should be given in 8-10 lines.

2 questions of 3 marks each will be set. Answer of question should be given in 10-15 lines.

1 question of 6 marks with internal choice will be set.

SECTION C

This section will cover Part II of the syllabus.

2 questions of 2 marks each will be set. Answer of theoretical question should be given in 8-10 lines.

2 questions 3 marks each will be set. Answer of theoretical question should be given in 10-15 lines.

1 question of 6 marks with internal choice will be set. Answer limit should be two to three pages.

SYLLABUS

PART-I

BUSINESS STATISTICS

Unit-1: Introduction to Statistics.

Meaning, definition; its need and importance in Business, Functions and distrust of Statistics.

Unit-2: Collection of Data.

Meaning of Data, Sources of Data, Primary and Secondary Data, Methods of Collecting Primary and Secondary Data, construction of questionnaire.

PART-II

INTRODUCTORY MICROECONOMICS

Unit-3: Introduction to Managerial Economics

Introduction, Definition, Characteristics of Managerial Economics, Difference between Managerial Economics and Economics; its Scope, Uses and Role & Responsibility of Managerial Economics.

Unit-4: Consumer Behaviour and Demand

- (i) Consumer's Equilibrium-meaning and attainment of equilibrium through utility approach; one and two commodity cases.
- (ii) Demand, market demand, determinants of demand, demand schedule, demand curve, movement along and shifts in demand curve, price elasticity of demand, measurement of price elasticity of demand-percentage, total expenditure and geometric method.

SEMESTER - II

Time : 3 Hours

Theory : 65 Marks
I.A./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 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 3 marks each will be set. Answer of question should be given in 10-15 lines.

2 questions 4 marks each will be set. Answer of question should be given in 15-20 lines.

2 questions of 7 marks internal choice will be set. Answer of question should be given in 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 question should be given in 10-15 lines.

2 questions of 4 marks each will be set. Answer of question should be given in 10-15 lines.

2 questions of 7 marks internal choice will be set. Answer of question should be given in 3-4 pages.

SYLLABUS

PART-I

BUSINESS STATISTICS

Unit-1: Theory of Sampling

Census and Sampling methods, Principles of sampling, Qualities of good sampling, methods or techniques of Sampling.

Unit-2: Presentation to Data.

Classification of data, Tables, Bar diagrams, Histograms and Ogives.

PART-II

INTRODUCTORY MICROECONOMICS

Unit-3: Producer Behaviour and Supply

- (i) Production function: Returns to a Factor and Returns to Scale.
- (ii) Supply, market supply, determiners of supply, supply schedule, supply curve, movement along and shifts to supply curve, price elasticity of supply, measurement of price elasticity of supply-percentage and geometric method.

- (iii) Cost and Revenue: Concept of costs, short run cost curves (fixed and variable costs; total average and marginal cost); concepts of total revenue, average and marginal revenue and their relationship.
- (iv) Producer's Equilibrium-with the help of MC and MR.

Unit-4: Forms of Market and Price Determination

Forms of market-Perfect competition, Monopoly, Monopolistic competition-their meaning and features, Price determination under perfect competition-Equilibrium price, effects of shifts in demand and supply.

47. MODERN OFFICE PRACTICE
(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 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 2) 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 2) 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 2) 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

The main objectives of the course in modern office practice is to make the students understand the concepts and principles of office methods and procedures and develop skills in performing office operations. This subject aims at making the students well conversant with the services provided by a modern office and enables them to present the same using modern methods and equipments.

PART-1

Introduction of Office

Meaning and Evolution of Modern Office, Functions of Office, Place of Office in a Modern Business Organisation, Concept of Office Management, Departments of a Large Office, Role and Qualities of a Modern Office Manager.

PART-2

Office Communications

Meaning and importance of Effective Communication, Principles of Communication, Channels of Communication, Role of Manager in Effective Communication, Types of Phone Calls, Video Conferencing, Effective Letter Writing, E-mail Writing and Report Writing.

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 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 2) 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 2) 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 2) 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

PART-1

Office Machines

Meaning and Relevance of Office Automation, Types of Machines used in Office with Special Emphasis on use of Computers in Office, Hardware and Software (MS-Office-MS Word, MS Excel, MS Power Point and MS Outlook), Types and use of Printers, Scanners, Copiers and other Appliances.

PART-2

Office Record Management

Meaning and Features of Record Management, Filing: Characteristics of a good filing system; Classification of Records for Filing (Alphabetical, Numerical etc.),. Modern Methods-Vertical, Horizontal, lateral and suspensions; Equipment; Types of Files; Filing routine, Disposal of Obsolete Documents; Indexing: Importance; Types-Page Inde% Card Index; Strip Index; Rotary Index, Micro Filing: Merits and Demerits; Types-Roll Fihri, Fiche, Jackets etc. Meaning of Electronic Filing, Data Storage Management.

SYLLABUS

PRACTICAL

Communication skills (Resume Writing and Application for jobs).

Students will be imparted a practical knowledge regarding basics of computers. Operation of Scanners, Printers Photocopiers, Fax Machines and Other Office Appliances. Mail Merge.

48. AGRICULTURE

SEMESTER-I

Time : 2½ hrs.

Theory : 55 Marks

CCE/IA : 25 Marks

Total : 80 Marks

STRUCTURE OF THE 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. $5 \times 3 = 15$
7. In question Nos. 23-25 there will be 100% internal Choice.
8. There will be no objective type question 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 based on above mentioned guidelines.
10. *Candidates will be provided with one answer book of 32 pages only. No. extra/continuation sheet will be provided.

SYLLABUS

Unit-1. SOIL AND SOIL MANAGEMENT

1. Elementary knowledge of rock and minerals, weathering of rocks, soil formation, soil profile, alkaline and acidic soils.
2. Elementary knowledge of soil texture and structure, properties of soil separates (sand, silt and clay), textural classification of soils, Structural classification of soil, soil tillage.
3. Elementary knowledge of water, importance of water in plant growth, various methods of irrigation and water lifts, used in Punjab.
4. Elementary knowledge of soil fertility- Factors affecting soil fertility. Methods of maintaining soil fertility. Organic manures (compost, F.Y.M., oil cakes and green manures) and inorganic fertilizers (nitrogenous, phosphatic and potassic and mixed fertilizers). Introduction to micronutrients.
5. Elementary knowledge of water logging-causes and remedies.
6. Elementary knowledge of tillage, implements used.

UNIT-2. FARM CROP AND FARM MANAGEMENT (Elementary knowledge)

1. Classification of crops, rotation of crops, crop mixture.
2. Study of the following crops with respect to their climatic and soil requirements, area, preparation of seedbed, time of sowing, seed rate, manurial requirement, spacing, interculture, irrigation, important pest diseases, harvesting, threshing, yield etc.
 - (a) Wheat, barley, gram, toria, barseem, potato, peas, radish, carrot, turnip and onion.
 - (b) Cotton, maize, sugarcane, rice, groundnut, bajra, sorghum, brinjal, okra, cauliflower, gourd, melons, tomato, sunflower.
3. Fruit tree-Importance of fruits and irrigational requirements for growing, layout of orchards: Cultivation of mango, guava, grapes, citrus, ber and peaches, important pests and diseases of fruit and their control.
4. Common weeds of the Punjab and their control.
5. Farm Management-Study of farming as business, costs of farm operations of major crops; sowing, interculture, harvesting and threshing, cost and income returns from major crops, simple farm records and accounts.

PRACTICAL

SOIL MANAGEMENT AND CROP CULTURE

1. Identification of soil by feel and touch method. Measurement of land.
2. Familiarity with farm implements and their handling, ploughing, preparation of seed-bed, sowing and harvesting of major field crops and vegetables and their harvesting.
3. Identification of common weeds, crops and their seed and fruit trees.

Note: Students will do all the practical work at the farm attached to the school and record in the practical note book maintained for this purpose.

SEMESTER-II

Time : 3 hrs.

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

STRUCTURE OF THE QUESTION PAPER (THEORY)

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. Question No. from 28-30 there will be 100% internal choice.
8. There will be no objective type question 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 based on above mentioned guidelines.
10. *Candidates will be provided with one answer book of 32 pages only. No. extra/continuation sheet will be provided.

SYLLABUS

UNIT-3. AGRICULTURE BIOLOGY-BOTANY

1. Biology-its definitions, comparison of living and non-living things, difference between animals and plants.
2. Cell-structure and cell division in plants, simple tissues in plants.
3. Elements of plant classification including major groups with common examples.
4. Study of the forms, structure and functions of root, stem, leaf and flower.

5. Vegetative reproduction-natural and artificial.
6. Seed structure of gram, pea, maize and castor and germination of seed. Conditions necessary for germination. Dispersal of seed.
7. Elementary study of bacteria and fungi and their economic importance.

UNIT-4. AGRICULTURE BIOLOGY-ZOOLOGY

1. Study of animal cell-its structure and division of animals.
2. Study of simple tissues in animals.
3. Study of animal classification indicating major phyla with examples.
4. Protozoa-Study of Amoeba and Entamoeba.
5. Study of external characters Liver fluke, Ascaris, Earthworm and their economic importance.
6. Study of general characters of insects with specific reference to the study of external characters of grass hopper.
7. Study of external characters of frog, fish and rabbit.
8. Economic importance of mammals.

PRACTICAL

SEMESTER-II

AGRICULTURE BIOLOGY

PART-A

General survey of plant kingdom, study of simple tissues of plant, structure and form of root, stem, leaf and flower. Demonstration of grafting, layering, budding, cutting,; Demonstration of studies of bacteria and fungi.

PART-B

1. General survey of animal kingdom.
2. Study of external characters of amoeba, liver fluke, ascaris, earthworm, ak-grass, hopper, frog, fish and rabbit.

Note : Students will do all the practical work of the farm attached to the school and record in the practical note book maintained for this purpose.