

**CLASS-XII****4. ENVIRONMENT EDUCATION****Time: 2 Hrs****Theory: 45 Marks****CCE: 05 Marks****Total: 50 Marks****STRUCTURE OF QUESTION PAPER (THEORY)**

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 long/medium answer type questions carrying 4 marks each. Answer to each question will be 50-60 words.
5. Question NO.16 and 17 long answer type question carrying 5 marks. Answer to this question will be in 80 -100 words.
6. In Question no: 16 and 17, there will be 100% internal choice.
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 guide lines.

Unit wise distribution of marks will be as follows.

**UNIT WISE DISTRIBUTION OF MARKS**

<b>Unit</b>	<b>1 Mark questions</b>	<b>2 Mark questions</b>	<b>4 Mark questions</b>	<b>5 Mark questions</b>
Unit-1 Biodiversity	1	1	1	1
Unit-II Environmental Management	1	1	1	or 1
Unit-III Sustainable Development	1	1	1	-
Unit-IV Sustainable Agriculture	1	1	1	1 or
Unit-V Environmental Actions	1	1	1	1
<b>Total Marks</b>	<b>5 marks</b>	<b>10 marks</b>	<b>20 marks</b>	<b>10 marks</b>

**INSTRUCTIONS FOR PAPER SETTER**

1. There will be 17 questions in theory paper.
2. Questions No. 1-5 are of 1 mark each and there should be one question from each unit.
3. Question 6-10 are of 2 marks each and there should be one question from each unit.

4. Question 11-15 are of 4 marks each and there should be one question from each unit.
5. Question 16 will be of 5 marks and to be set from unit I and choice question should be set from unit II.
6. Question 17 will be of 5 marks and to be set from unit IV and choice Question should be set from unit V.

## **SYLLABUS**

### **Unit-1 Biodiversity**

- Concept and value of biodiversity
- Levels of biodiversity species, eco and genetic.
- Balance in nature.
- Biodiversity for sustenance of mankind.
- Resource limitation.
- Ecological role of biodiversity.
- Interdependence among different species.
- India as a mega diversity nation.
- Economic potential of biodiversity.
- Loss of biodiversity- threatened, endangered and extinct.
- Strategies for conservation of biodiversity in situ and ex situ.
- Mitigating the people- wildlife conflict.

### **Unit-II Environmental Management**

- Need for environment management vis-a-vis development.
- Aspects of environmental management-ethical, economic, technological and social.
- Legal provisions for environmental management.
- Approaches for environmental management- economic policies, environmental indicators, setting of standards, information exchange and surveillance.
- Problem of stubble and its management ( study material uploaded on website)

### **Unit-III Sustainable Development**

- Concept of sustainable development.
- Concept of sustainable consumption.
- Need for sustainable development for improving the quality of life for the present and future.

- Challenges for sustainable development-political and administrative will, dynamic and flexible policies, appropriate technologies, comprehensive review and revision mechanism, human approach.
- Development of skilled manpower.
- Role of individual and community.
- Role of national and international agencies( both governmental and non- governmental)

#### **Unit-IV Sustainable Agriculture**

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

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

- Meeting basic human need, food, water, shelter and fuel for all.
- Population control
- Changing consumption patterns.
- Prevention and control of environmental pollution.
- Waste management- reduce, reuse and recycle;
- Community movement for ecological restoration and conservation of environment like joint forest Management (JFM), student's participation in tree rearing, social and agro- forestry.
- Drugs-ill effects(Part-II) Consequences of use of different drugs, The narcotic drugs and psychotropic substances Act-1985 offences as penalties.(study material uploaded on website)

#### **CCE**

##### **Example projects and Activities:**

It is expected that student will undertake two projects or activities. These projects should be undertaken individually and student will prepare a report in each case. Teacher 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 status of an endangered species listed for region by collecting information through different sources and observation and to assess the reasons for its diminishing number. Suggest ways and means to protect the species.
- To conduct a survey of plants and trees in the locality and collect information about their cultural, economic and medicinal values from the local people and available literature. To prepare an action plan for afforestation and planting of trees as trees are most valuable in terms of their cultural, economic importance and medicinal use.
- To study the practices followed in the region for storage, preservation, transportation and processing of perishable or non perishable farm products and to assess the extent of their wastage due to faulty practices.
- To make a list of raw materials used by the family for preparing different types of dishes. To identify the plants and their parts from which food material is obtained. To make a list of plants on which the animals depend for their food. To prepare a report supported by diagrams/photographs/pictures/graphs to focus on the importance of biodiversity in providing food to human population.
- To study the impact of changes in agricultural practices of animal husbandry including poultry, piggery, fishery and apiculture over a period of time in the local environment or in a given locality or village. The components for analysis may include; types of crop, land area under cultivation, mechanization, use of electricity, mode of irrigation and agrochemicals, agro wastes and their disposal, types of animal breed and their feed, types of shelter and health care, method of preservation and processing of products and animal wastes and their disposal. To suggest an action plan for modifying the prevailing practices so as to make them environment friendly and sustainable.

ਸੁਕਨਾ

ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ

~~ਵਿਸ਼ਾ: ਅਕਾਦਮਿਕ ਸਾਲ 2020-21 ਲਈ ਨੌਵੀਂ ਤੋਂ ਬਾਰ੍ਹਵੀਂ ਸ਼੍ਰੇਣੀ ਲਈ Revised~~  
~~ਸਿਲੇਬਸ।~~

ਵਿਸ਼ਵ ਭਰ ਵਿੱਚ Covid-19 ਮਹਾਂਮਾਰੀ ਦੇ ਮੱਦੇ ਨਜ਼ਰ ਸਕੂਲ ਬੰਦ ਹੋਣ ਕਾਰਨ ਵੱਖ-ਵੱਖ ਸ਼੍ਰੇਣੀਆਂ ਦੀ ਪੜ੍ਹਾਈ ਦਾ ਬਹੁਤ ਨੁਕਸਾਨ ਹੋਇਆ ਹੈ। ਇਸ ਕਰਕੇ ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ ਵੱਲੋਂ ਅਕਾਦਮਿਕ ਸਾਲ 2020-21 ਲਈ ਨੌਵੀਂ ਤੋਂ ਬਾਰ੍ਹਵੀਂ ਸ਼੍ਰੇਣੀਆਂ ਦੇ ਪਾਠਕ੍ਰਮ ਨੂੰ ਘਟਾਉਣ ਦਾ ਫੈਸਲਾ ਲਿਆ ਗਿਆ ਹੈ। ਸਿੱਖਣ ਪੱਧਰ ਦੀ ਮਹੱਤਤਾ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਸਿਲੇਬਸ ਇਸ ਢੰਗ ਨਾਲ ਘਟਾਉਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਗਈ ਹੈ ਕਿ ਵਿਸ਼ੇ ਦੇ ਮੂਲ ਸੰਕਲਪ ਨੂੰ ਹਾਨੀ ਨਾ ਪਹੁੰਚੇ।

ਸਕੂਲ ਮੁਖੀਆਂ ਅਤੇ ਅਧਿਆਪਕਾਂ ਵੱਲੋਂ ਇਸ ਗੱਲ ਦਾ ਖਾਸ ਧਿਆਨ ਰੱਖਿਆ ਜਾਵੇ ਕਿ ਦੂਜੇ Topics ਨਾਲ ਰਾਬਤਾ ਰੱਖਣ ਲਈ ਲੋੜ ਅਨੁਸਾਰ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਘਟਾਏ ਗਏ Topics ਨੂੰ ਵੀ ਪੜ੍ਹਾਇਆ ਜਾਣਾ ਉਚਿਤ ਹੋਵੇਗਾ ਬੇਸ਼ਕ ਇਹ Topics ਆੰਤਰਿਕ ਮੁਲਾਂਕਣ ਅਤੇ ਸਾਲਾਨਾ ਇਮਤਿਹਾਨਾਂ ਦਾ ਹਿੱਸਾ ਨਹੀਂ ਹੋਣਗੇ।

ਘਟਾਏ ਗਏ ਸਲੇਬਸ ਦਾ ਵੇਰਵਾ ਹੇਠ ਦਿੱਤਾ ਗਿਆ ਹੈ।

**Environmental Education**

**Code 139**

**DELETED PORTIONS ; CLASS XII**

**Under Unit 1 : Biodiversity**

Chapter : Biodiversity Part II

**Under Unit 2 : Environmental Management**

Chapter : Environmental Management Part II

Chapter : Stubble ; Problems and Management

**Under Unit 3 : Sustainable Development**

Chapter : Sustainable Development Part II

**Under Unit 4 : Sustainable Agriculture**

Chapter : Sustainable Agriculture Part II

**Under Unit 5: Environmental Actions**

Chapter : Environmental Act Part II