

SYLLABUS

2021-22

CLASS XI

ENVIRONMENT EDUCATION

TIME 2 Hrs

Theory: 45 Marks

IA: 05 Marks

Total: 50 Marks

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 in past and present.

2. Population and Environment

- Demography, causes of increase in population and its ill effects on environment, urbanization.

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.
- Urbanization- 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 programmes and campaigns, public participation in decision making.

Unit-III Environmental Pollution and Global Issues

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, 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, climate changes and their effects on human society, agriculture plants and animals.

10. Disaster

- Disaster- natural (earthquakes, 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 pattern of energy consumption -from ancient to modern times.
- Energy consumption as a measure of quality of life.
- Rising demand for energy gap between demand and supply (Indian context.)

12. Conventional Sources of Energy

- Conventional energy sources- fossil and firewood, potential (India context) and limitations of each source, methods of harnessing energy and environment consequences of their use.

13. Non- conventional Source of Energy

- Non Conventional energy sources- type of non -conventional sources(biomass, solar, wind, ocean, hydel, geothermal, nuclear),potential(Indian context) and limitations of each source, methods of harnessing 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 housekeeping.

16. Safety Laws, Accidents and First- Aid

- Safety awareness management- safety precautions- home and work (laboratory, workshop, work site), safe handling of equipment 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.

17*. Drugs- ill Effects Part-I

- Importance of health, Drug-addiction, symptoms (Material upload on website)
- Drugs of abuse and their health consequences, academic and occupational consequences, consequences for family, social, legal and criminal consequences.
- Prevention of Drug, Government initiatives, the narcotic drug and psychotropic substances act-1985, offences and penalties.

* Chapter 17 is added in the syllabus as a compulsory topic, Matter is available on the Board's website www.pseb.ac.in.

CCE

Instructions for CCE (05 marks)

Teachers teaching the subject of Environment Education to students will evaluate them throughout the year for the work done by the student in and around the school campus regarding environmental cleanliness, planting trees, developing herbal gardens, growing ornamental plants, medicinal plants and participating in environmental activities which are celebrated in the school. Student will also keep the record in a project file for two different projects carried by him/her. So over all evaluation of the student will be based on his/her performance and contribution to environment.