

# **SYLLABUS**

**2021-22**

**CLASS XII (OPEN SCHOOL)**

**ENVIRONMENT EDUCATION**

**TIME 2 Hrs**

**Theory: 45 Marks**

**IA: 05 Marks**

**Total: 50 Marks**

## **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 bio-fertilizers 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)