

Roll No.....

**B-20-X**

Total No. of Questions : 30]

[Total No. of Printed Pages : 7

**XIARJKUT23**

**9120-X**

# ENVIRONMENTAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

## SECTION-A

1 each

### (MULTIPLICATION QUESTIONS AND OBJECTIVES)

1. In which horizon of soil minerals are formed ?
  - (A) A
  - (B) B
  - (C) C
  - (D) None of these
  
2. Which three layers form soil profile ?
  - (A) Air, water and soil
  - (B) Minerals, organic matter and living organisms
  - (C) Clay, silt and sand
  - (D) Top soil, sub-soil and parent material

3. Define Pyrolysis

4. Cryopreservation of gametes of threatened species in viable and fertile conditions can be referred as .....

5. Ozone in stratosphere extends :

(A) 10-20 km

(B) 20-25 km

(C) 15-30 km

(D) 25-40 km

6. Main cause of extinction of species from tropical areas is :

(A) Afforestation

(B) Deforestation

(C) Pollution

(D) Soil erosion

7. What is the role of Environmental Legislation ?
8. The provisions for Environmental protection in the Constitution were made in :
- (A) 1976
- (B) 1950
- (C) 1982
- (D) 1960

**SECTION-B**

2 each

**(VERY SHORT ANSWER TYPE QUESTIONS)**

9. What are the various means to Control Noise Pollution ?
10. How industrial waste contribute to Water Pollution ?
11. What are the four stages of Sewage Treatment ?
12. What are the various causes of Soil Pollution ?
13. How is composting used as a disposal of Solid Waste ?

14. What are the implications of Hazardous Waste ?
15. How is deep well injection used in the management of Hazardous Wastes ?
16. Discuss the effects of Global Warming.
17. What are the implications of Desertification ?
18. What are the various features of Environmental Protection Act, 1986 ?

*Or*

What is Sustainable Development ? How is it helpful in nature ?

**SECTION-C**

3 each

**(SHORT ANSWER TYPE QUESTIONS)**

19. What are the various constituents of Domestic Sewage ? Discuss the effects of sewage discharge on a river.
20. What is meant by Marine Pollution ? What are the various types of marine pollution ? Explain.

1. What is the difference between gaseous and particulate pollution of air? How gaseous pollution can be controlled ?
2. Define Soil. Explain any two classes of soil as classified by Indian Council of Agricultural Research (ICAR).
3. What is the impact of soil erosion on the Environment ? Explain.
4. What are the various methods of dispersal of solid waste ? Explain any one method for the dispersal of waste.
5. List the reasons that account for the greater diversity in tropics.
26. What are the salient features of Water (Prevention and Control of Pollution) Act, 1974 ? <https://www.jkboseonline.com>
27. What are the key elements of Environmental Impact Assessment ? Explain.

*Or*

What are the benefits of Environmental Impact Assessment ? Explain.

SECTION-D

5 each

(LONG ANSWER TYPE QUESTIONS)

28. Define Air Pollution. Explain the sources and main effects of Air Pollution.

*Or*

Explain in detail sources and effects of Noise Pollution.

29. How is Biodiversity important for ecosystem functioning ? Explain in detail.

*Or*

Differentiate between the following :

- (i) Genetic diversity and Species diversity
- (ii) Keystone species and Endangered species

( 7 )

30. What are the international efforts for combating Global Warming ?

Explain salient features of Kyoto Protocol.

*Or*

Account for Smog and Acid rain. How do they effect us ? Explain.