

MD-1/EVS

2024

(FYUGP)

(1st Semester)

ENVIRONMENTAL SCIENCE

Paper Code : MD-1/EVS

Full Marks : 37½

Pass Marks : 40%

Time : 2 hours

(PART : B—DESCRIPTIVE)

(Marks : 25)

The questions are of equal value

Answer any five of the following questions :

- 1. Why is public awareness necessary for the protection of the environment?**
- 2. What is the scope of environmental science?**
- 3. What are renewable and non-renewable resources? Explain in detail with two examples each.**

4. Discuss the major uses of forest resources. How would you justify that the ecological uses of forest surpass the commercial uses of forest?
5. What are some of the factors that influence the population size?
6. Explain the effects and preventive measures of noise pollution.
7. Write some of the ways in which the solid waste can be managed.
8. Write some development of International Environmental Laws and Treaties for the protection of environment.
9. What are the main strategies for environmental hazard mitigation?
10. Discuss the major issues that cause soil pollution and write its effects.

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(PART : A—OBJECTIVE)

(Marks : $12\frac{1}{2}$)

The figures in the margin indicate full marks for the questions

A. Put a Tick (✓) mark against the correct answer in the brackets provided : $\frac{1}{2} \times 15 = 7\frac{1}{2}$

1. An extensive number of chains interlinked in an ecosystem forms a _____

- (a) food chain ()
- (b) food web ()
- (c) carbon cycle ()
- (d) nitrogen cycle ()

2. Which one of these does not refer to the direct use of forest products?

- (a) Grass for grazing ()
- (b) Gums and resins ()
- (c) Medicine ()
- (d) Bamboo for baskets ()

3. What is called for the transitional zone between the desert and the denser forests of the Western Ghats?

- (a) Deccan plateau ()
- (b) North-West desert region ()
- (c) North-East India ()
- (d) Semi-arid areas ()

4. The 'willingness to pay' concept is based on _____ value of an ecosystem.

- (a) social ()
- (b) aesthetic ()
- (c) option ()
- (d) ethical ()

5. The Joint Forest Management was started in the year

- (a) 1972 ()
- (b) 1973 ()
- (c) 1974 ()
- (d) 1975 ()

6. Which gas is likely to be reduced in the atmosphere by deforestation?

- (a) CO_2 ()
- (b) NO_2 ()
- (c) O_2 ()
- (d) SO_2 ()

7. The study of population is called

- (a) demography ()
- (b) population explosion ()
- (c) population dynamics ()
- (d) census ()

8. Which of the following is a non-renewable energy resource?

- (a) Solar ()
- (b) Methane ()
- (c) Hydroelectric ()
- (d) Coal ()

9. Which of the following greenhouse gases is entirely anthropogenic in origin?

- (a) Water vapour ()
- (b) CFCs ()
- (c) Carbon dioxide ()
- (d) Methane ()

10. The best way to dispose plant waste is

- (a) burning ()
- (b) composting ()
- (c) dumping in a hilly area ()
- (d) incineration ()

11. The Forest Conservation Act was passed on

(a) 1980 ()

(b) 1981 ()

(c) 1982 ()

(d) 1983 ()

12. Which of the following technologies is used to convert plastic waste to fuel?

(a) Pyrolysis ()

(b) Composting ()

(c) Incineration ()

(d) Gasification ()

13. Which phase of disaster management focuses on long-term measures to prevent or reduce the effects of disaster?

(a) Response ()

(b) Recovery ()

(c) Mitigation ()

(d) Preparedness ()

14. Which of the following is a method for reducing risk?

(a) Ignoring early warning systems

(b) Increasing vulnerability by removing safeguards

(c) Implementing hazard-resistant infrastructure

(d) Increasing exposure to hazards

15. Which of the following best defines environmental management?

(a) The control of pollution and waste

(b) The development of policies for industrial growth

(c) The process of managing human impact on the environment

(d) The management of natural resources for economic gain

B. Answer any *five* from the following questions : $1 \times 5 = 5$

1. What do you mean by the option value of biodiversity?

2. Define ecosystem.

B. Answer any two from the following questions. 1x5=5

1. What do you mean by the option value of biodiversity?

(a) Ignorance

(b) Increased
sustainability

(c) Improved
adaptation

(d) Increased
resilience

(e) Increased
productivity

(f) Increased
stability

(g) Increased
diversity

(h) Increased
complexity

(i) Increased
resilience

3. What are natural resources? Give example.

4. Is shifting cultivation one of the causes of deforestation? Justify your answer.

(11)

5. Write two impacts of population growth on environment.

7. What is forecasting?

6. What do you mean by the term 'incineration'?

7. What is forecasting?

(13)

8. What is the main objective of the Environmental Protection Act?

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