

III/ES

2010

ENVIRONMENTAL STUDIES

Paper : EST-300

Full Marks : 100

Pass Marks : 30

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 60)

*The figures in the margin indicate full marks
for the questions*

Answer any **five** questions :

1. (a) Discuss the need for gender equity in
conserving environment. 6
- (b) Discuss the modification brought about
in the earth's environment by the
biosphere. 6
2. (a) Mention some factors that cause
landslides. Suggest measures to mitigate
them. 6
- (b) What are hazardous wastes? How do
they affect health? 6

3. (a) Man has become an agent of his own destruction and that of the entire biosphere on this planet. Discuss. 6
- (b) What is forest ecosystem? How can forest ecosystem be conserved? 6
4. (a) What do you understand by non-renewable resources? What will happen if we exhaust all our non-renewable resources? 6
- (b) How can we transform modern agriculture into a sustainable system? 6
5. (a) What is nuclear energy? Discuss its advantages and disadvantages. 6
- (b) What is rainwater harvesting? Discuss the advantages and feasibility of rain-water harvesting. 6
6. (a) Discuss the problems associated with simple biodegradable wastes. How can you expedite the decomposition and elimination of these wastes? 6
- (b) What are the problems associated with the use of pesticides? What are their ecological effects? 6

(3)

7. Write notes on (any two) :

6×2=12

- (a) The ethics and value system of conservation
- (b) Energy flow in the ecosystem
- (c) Consequences of deforestation
- (d) Soils of India

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(PART : A—OBJECTIVE)

(Marks : 40)

The figures in the margin indicate full marks for the questions

SECTION—I

(Marks : 10)

Put a Tick ☒ mark against the correct answer in the box provided : 1×10=10

1. The Environment Protection Act was passed in

(a) 1986 ☐

(b) 1987 ☐

(c) 1988 ☐

(d) 1989 ☐

(2)

2. The term used for the single pathway of energy flow in the biosphere is

(a) food web ☐

(b) food chain ☐

(c) trophic level ☐

(d) food pyramid ☐

3. Organisms which prepare their own food are

(a) heterotrophs ☐

(b) herbivores ☐

(c) autotrophs ☐

(d) carnivores ☐

4. The term ecosystem was first proposed by

(a) A. G. Tansley ☐

(b) Ernst Haeckel ☐

(c) E. P. Odum ☐

(d) Friederick ☐

(3)

5. Environment has two components

- (a) plants and animals ☐
- (b) man and nature ☐
- (c) biotic and abiotic ☐
- (d) physical and chemical ☐

6. Nutrient movement is

- (a) cyclic ☐
- (b) non-cyclic ☐
- (c) one-way ☐
- (d) All of the above ☐

7. pH values less than 7 are considered

- (a) alkaline ☐
- (b) acidic ☐
- (c) neutral ☐
- (d) None of the above ☐

8. Which of the following is an alternative technology?

(a) Use of coal ☐

(b) Use of hydel power ☐

(c) Use of solar energy ☐

(d) Use of gas ☐

9. The optimum level of noise prescribed by WHO is

(a) 35 decibel ☐

(b) 45 decibel ☐

(c) 55 decibel ☐

(d) 65 decibel ☐

10. Waste-absorbing function of the environment is put to great strain by

(a) growth of agriculture ☐

(b) haphazard urbanisation ☐

(c) loss of wastelands ☐

(d) deforestation ☐

(5)

SECTION—II

(Marks : 30)

Write short notes on the following :

2×15=30

1. Ecology

(6)

2. Food chain

(7)

3. Climate change

4. Water pollution

(8)

5. Wildlife Protection Act

6. Ecological succession

7. Photosynthesis

(10)

8. Environmental health

9. Chipko Movement

(12)

10. Cancer and the environment

11. Traditional medicine

(14)

12. Urban problems in relation to energy

13. Threats to biodiversity

(16)

14. Role of individual in conservation of natural resources

(17)

15. Settled cultivation

10G—2700/88

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