

**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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2010

**ENVIRONMENTAL STUDIES**

Paper : EST-300

( 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 Heickel ☐

(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

( 11 )

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

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