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## ENVIRONMENTAL SCIENCE

*(Two hours)*

*Answers to this Paper must be written on the paper provided separately.*

*You will **not** be allowed to write during the first **15** minutes.*

*This time is to be spent in reading the question paper.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

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*Attempt **all** questions from **Section A** and **any four** questions from **Section B**.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

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### SECTION A (40 Marks)

*Attempt **all** questions from this Section*

#### Question 1

- (a) What is biogas? State any one advantage of using biogas. [2]
- (b) Give the full form of CITES. [2]
- (c) Define silviculture. [2]
- (d) How is waste water useful to mankind? [2]
- (e) List any two factors responsible for population growth. [2]

#### Question 2

- (a) What is vermiculture? State any one benefit of vermiculture to a farmer. [2]
- (b) Give one advantage and one disadvantage of using sewage sludge in agriculture. [2]
- (c) Mention any two man made factors that have led to loss of biodiversity. [2]
- (d) How does GEF complement the Montreal Protocol? [2]
- (e) Name the Multi National Corporation that was responsible for the Bhopal Gas Tragedy. Name the gas that was leaked. [2]

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**Question 3**

- (a) State any two ways as to how women play an important role in protecting the environment. [2]
- (b) Name any two wet land sites in India protected under Ramsar Convention (1971). [2]
- (c) Give two examples of any material containing natural cellulose fiber (other than wood), for the production of paper. [2]
- (d) How has trade helped to reduce global inequality? [2]
- (e) Mention any two benefits of Green Manure. [2]

**Question 4**

- (a) State any two measures taken to control industrial pollution in and around the Taj Trapezium. [2]
- (b) Mention any two ways by which small scale industries help to reduce poverty. [2]
- (c) What do you understand by Gene banks? [2]
- (d) How is community participation an important part of every society? [2]
- (e) List two conditions put forward by the government of developing countries to MNCs that should be fulfilled before entering into the markets. [2]

**SECTION B (40 Marks)**

*Answer **any four** questions from this Section*

**Question 5**

- (a) What do you understand by *ex-situ* conservation of biodiversity? [5]  
Give two advantages and two disadvantages of *ex-situ* conservation.
- (b) Define waste management. [5]  
Why is segregation of waste important before disposal?

**Question 6**

- (a) What is hydropower? [5]  
State any two advantages and any two disadvantages of hydropower.
- (b) State five measures that can be taken to encourage people to move to satellite cities. [5]

**Question 7**

- (a) What is *baranaja*? List four benefits of this agricultural practice. [5]
- (b) Explain the farming techniques used to reduce soil erosion. [5]

**Question 8**

- (a) State five aims of the Wildlife Protection Act of 1972. [5]
- (b) What do you understand by land reforms? List four measures enforced by the Government of India to give land to the landless. [5]

**Question 9**

- (a) What is traffic management? What measures has the traffic management department taken to save fuel and reduce emission? [5]
- (b) State measures that could be taken to use land efficiently and improve the urban environment. [5]

**Question 10**

- (a) What are the trade restrictions imposed by developed countries on the developing countries? [5]
- (b) How does biotechnology play an important role in achieving global food security? [5]