

M.B.B.S. SECOND PROFESSIONAL EXAMINATION, DECEMBER-2024
ENVIRONMENTAL SCIENCES

[Time allotted: Three hours]**[Max Marks: 100]****NOTE – Read all the instructions carefully.****Q. 1. Very short answer questions: (Attempt all.)****(10×2=20)**

- a. Define lapse rate.
- b. Ecology is the study of _____.
- c. Give an example of lotic ecosystem.
- d. Define hydrogen fuel cell.
- e. There are _____ biosphere reserves in India.
- f. Give two examples of secondary air pollutants _____.
- g. Burning of fossil fuels is the main cause of acid rain. (True/False)
- h. Montreal protocol was signed in _____.
- i. The Wildlife Protection act was enacted in 1982. (True/False)
- j. Carbon footprint is the measure of carbon used in the manufacturing of plastic products. (True/False)

Q. 2. Short Answer Questions: (Attempt Any Five)**(5×4=20)**

- a. Brief the need of environmental studies.
- b. What are different types of food chain?
- c. Write the advantages and limitations of hydrogen energy.
- d. Brief the criteria for hotspots of biodiversity.
- e. Differentiate between primary and secondary air pollutants.
- f. Write short note on Kyoto protocol.
- g. Write the salient features of Wildlife Protection act, 1972.

Q. 3. Structured Question: (Attempt Any Three)**(3×10=30)**

- a. Explain about the segments of environment in detail.
- b. Describe the functions of an ecosystem with examples.
- c. Discuss the causes and consequences of deforestation.
- d. Explain in-situ and ex-situ biodiversity conservation practices.

Q. 4. Long Answer/Essay type Questions: (Attempt Any Two)**(2×15=30)**

- a. Describe the effects of air pollution on environment and humans.
- b. (i) Describe the causes and effects of climate change.
(ii) Discuss the problems related to the rehabilitation and resettlement of human communities.
- c. Discuss the role of an individual in environmental protection. Explain your environmental field visit experience in detail.
