

Roll No.

Total Pages : 3

327207

May-2026

B.Sc. - II SEMESTER

Environmental Science - II

(ESU-202-V)

Time : 3 Hours]

[Maximum Marks : 75

Instructions :

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
- 2. Answer any four questions from Part-B in detail.*
- 3. Different sub-parts of a question are to be attempted adjacent to each other.*

PART - A

1. (a) Define environmental pollution. Distinguish between point and non-point sources. (1.5)

(b) What are primary and secondary air pollutants? Give one example of each. (1.5)

(c) What are Volatile Organic Compounds (VOCs)? (1.5)

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- (d) Define water pollution and list any two sources. (1.5)
- (e) What is noise pollution? How is it measured? (1.5)
- (f) What are greenhouse gases (GHGs)? Name any two. (1.5)
- (g) Define climate change adaptation and mitigation. (1.5)
- (h) What is ISO 14001? (1.5)
- (i) Explain the concept of 3R (Reduce, Reuse, Recycle). (1.5)
- (j) What is the purpose of the Cartagena Protocol? (1.5)

PART – B

- 2. (a) Explain sources and types of air pollution. Discuss various health impacts associated with air pollution. (10)
- (b) What are the criteria air pollutants? Discuss the names and properties of the criteria air pollutants. (5)
- 3. (a) What is soil pollution? Discuss various sources of soil pollution. (5)
- (b) Describe the structure of the atmosphere. What is the importance of 1.5°C and 2.0°C limits to global warming? Discuss the various impacts of climate change. (10)
- 4. Write a note on the following :
 - (a) Montreal Protocol and the Kigali Amendment;
 - (b) Basel Convention and Stockholm;
 - (c) Convention on Persistent Organic Pollutants and Minamata Convention. (15)

- 5. (a) Differentiate between adaptation and mitigation strategies in climate change. (5)
- (b) Explain greenhouse gas reduction strategies and India's National Climate Action Plan. (10)
- 6. (a) Discuss the Indian Constitution provisions – Article 48A and Article 51A. (10)
- (b) Discuss the constitutional provisions related to environmental protection in India. (5)
- 7. Discuss major international environmental treaties such as UNFCCC, Kyoto Protocol, and Paris Agreement. Also explain India's role in global environmental governance. (15)