Roll No. _____ Sr. No. - 322419

May 2026
B.Sc. (Chemistry) – 4th SEMESTER
Environmental Science-II (VAC-201-V)

Max. 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

Q1 (a) What are the point and non-point sources of pollution? (1.5)

(b) Define secondary pollutants with an example. (1.5)

(c) What is the Ecolabeling/Eco-mark scheme (1.5)

(d) Write a short note on climate justice. (1.5)

(e) What are Articles 48A and 51A(g)? (1.5)

(f) What are Soil quality parameters? Explain its importance. (1.5)

(g) Discuss the Kigali Amendment. (1.5)

(h) Write about the silent feature of the Biological Diversity Act, 2002. (1.5)

(i) Write the names of any three ozone-depleting substances. (1.5)

(j) What is the role of the Intergovernmental Panel on Climate Change (IPCC)? (1.5)

PART -B

Q2 Write a short note on (5 x 3 =15)
- i) Soil Pollution sources and their impact
- ii) Criteria pollutants
- iii) Radioactive pollution and its impact

Q3 Write a short note on (5 x 3 =15)
- i) National Climate Action Plan
- ii) Concept of carbon intensity and carbon neutrality
- iii) Impacts of climate change

Q4 (a) Discuss in detail the Waste Management Rules. (7)

(b) Explain the concept of the Circular Economy and 3R (Reduce, Recycle, and Reuse) (8)

Q5 (a) Write a short note on (4 x 2 = 8)

i) Cost-benefit analysis

ii) Green House Gas (GHG) reduction

(b) What is an environmental management system? Explain the importance and process of ISO 14001. (7)

Q6 (a) Write a short note on (3 x 3 = 9)

i) Man and Biosphere (MAB) programme

ii) Kyoto Protocol

iii) National Green Tribunal

(b) Discuss the role and importance of the Stockholm Convention on Persistent Organic Pollutants in international efforts. (6)

Q7 (a) What is water pollution and its sources? Discuss in detail the role of an individual in the prevention of pollution, and two case studies related to pollution control (10)

(b) Write a short note on the International Union for Conservation of Nature (IUCN) (5)

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