

Roll No.

Total Pages : 3

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May 2026

B.SC. II SEMESTER

Environmental Studies–II (VAC–201–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. Briefly answer the following questions:
 - (a) Distinguish between point sources and non-point sources of pollution with suitable examples. (1.5)
 - (b) Briefly explain the concept of assimilative capacity of the environment. (1.5)
 - (c) Define indoor air pollution. (1.5)
 - (d) What do understand by good ozone and bad ozone? (1.5)

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- (e) Define thermal pollution. What are the ecological impacts of thermal pollution? (1.5)
- (f) Why is the 1.5°C global warming limit considered important? (1.5)
- (g) Define climate vulnerability. (1.5)
- (h) Differentiate between carbon intensity and energy intensity. (1.5)
- (i) What is meant by a circular economy? (1.5)
- (j) What is the significance of Conference of the Parties (COP) in global environmental governance? (1.5)

PART-B

2. (a) Give a detailed account of various health impacts of major criteria pollutants. (5)
- (b) Explain the major sources of water pollution affecting rivers and groundwater. (5)
- (c) Differentiate between solid and hazardous waste. How are these related to soil pollution? (5)
3. (a) Elaborate the structure of atmosphere with reference to the temperature profile. (7.5)
- (b) Explain the possible impacts of climate change on agriculture, ecosystems, and human health in the India sub-continent. (7.5)
4. (a) What is climate change adaptation? Explain the role of indigenous knowledge in climate adaptation strategies. (7.5)

- (b) What is the importance of cost-benefit analysis in environmental decision making. (7.5)
- 5. (a) Discuss the major provisions of the Wildlife (Protection) Act, 1972 and the Forest (Conservation) Act, 1980. (10)
- (b) What are the major objectives of the Biological Diversity Act, 2002. (5)
- 6. (a) Discuss the constitutional provisions for environmental protection in India with reference to Articles 48A and 51A(g). (5)
- (b) Describe the role of the National Green Tribunal (NGT) in strengthening environmental justice. (5)
- (c) Briefly explain the objectives and significance of the Environment (Protection) Act, 1986. (5)
- 7. (a) Explain the objectives and achievements of the Montreal Protocol in protecting the ozone layer. (7.5)
- (b) Give a detailed account of international environmental organizations working for environmental protection. (7.5)