

Roll No.

Total Pages : 3

321108

December 2023

B.Sc. (Physics/Maths/Chemistry/Animation/LS/MAC)

1st SEMESTER

Environmental Science-I (VAC-101-N1)

Time : 3 Hours]

[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

1. (a) Define Environmental according to EPA, 1986. (1.5)
(b) Write the name of any five SDGs and its importance. (1.5)
(c) What is positive and negative aspects of green revolution? (1.5)
(d) Write about initiative taken by India after UN conference on Human Environments, 1972. (1.5)
(e) What is the importance of hydrogen energy? (1.5)

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- (f) What is the Article 48A and 51A? Explain its importance. (1.5)
- (g) Explain one local and global environmental issue. (1.5)
- (h) What is role of tradition knowledge in biodiversity conservation? (1.5)
- (i) How many national parks, sanctuary, and biosphere reserve in India? (1.5)
- (j) What is radioactivity and its measuring units? (1.5)

PART-B

2. (a) Write short notes on :
- (i) Global environmental challenges.
 - (ii) Geothermal energy.
 - (iii) Photochemical smog.
 - (iv) Heavy metal toxicity. (10)
- (b) Discuss the role and importance of Rio summit along with international efforts. (5)
3. (a) What is wetland ecosystem? Discuss in detail about wetland characteristics and case study on wetland conservation. (5)
- (b) Explain about biodiversity and its values and conservation approach. (10)
4. What are water resources? Explain about it types, importance and advanced and disadvantages. (15)

5. (a) Write a short note on
- (i) Acid Rain. (5)
 - (ii) Hazardous waste. (5)
- (b) What is Natural disaster? Explain about global disaster case study occurred in past decades in environment. (10)
6. (a) Write short notes on :
- (i) Desertification.
 - (ii) Biomagnification.
 - (iii) Nitrate pollution in groundwater. (10)
- (b) What is sustainable development? Discuss in details about the challenges and strategies of sustainable development goal (SDGs). (5)
7. Discuss in detail about the role of an individual in prevention of pollution and two case studies related to pollution control. (15)