

Roll No. ....

Total Pages : 3

**80026**

**May, 2019**

**B. Tech. 2nd Semester (Reappear)  
Environmental Science (HAS- 107C)**

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.*
- 4. Give the appropriate flow chart/figure wherever required.*

**PART-A**

1. (a) What do you understand by thermal pollution? How does it occur in water bodies? (1.5)

(b) What is meant by Endemic and Endangered species? Give some examples. (1.5)

(c) What do you understand by Eutrophication? Discuss. (1.5)

(d) What is Demographic transition? How it is related to economic development in a country? (1.5)

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- (e) What do you understand by 'Environmental Ethics'? (1.5)
- (f) Explain the term 'Acid Rain' and its effects. (1.5)
- (g) What are the primary and secondary air pollutants? Give examples. (1.5)
- (h) What is Biochemical Oxygen Demand? How it pollutes the water bodies? (1.5)
- (i) Define Food Chain. What is its significance? (1.5)
- (j) Classify Solid Waste. (1.5)

### PART-B

2. (a) Define Biodiversity. What are different levels of biodiversity? Write about different values of biodiversity with suitable examples. (8)
- (b) Explain about *in-situ* and *ex-situ* conservation of biodiversity. (7)
3. (a) How age structure pyramids help in determining population trends of a country? Explain. (8)
- (b) What do you understand by the multidisciplinary nature of Environmental Studies? Explain. (7)
4. (a) What is Ecosystem? Discuss various structural and functional aspects of ecosystem. (8)
- (b) Explain energy flow in an ecosystem with single and double channel energy flow models. (7)

5. (a) Enumerate with examples the major sources and effects of surface water pollution and ground water pollution. (8)
- (b) Briefly describe the sources, effects and control of air pollution. Give an account of air pollution during winter season. How this can be reduced? (7)
6. (a) Give a detailed account of renewable energy resources with at least *five* different examples. (8)
- (b) What are the causes and consequences of deforestation and soil erosion? (7)
7. (a) Write a short note on Greenhouse effect and global warming with suitable diagrams. (8)
- (b) How Ozone layer depletion takes place? What are major impacts of depleting Ozone layer? Explain. (7)
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