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Total No. of Questions: 09

Total No. of Pages: 02

B. Tech. (Sem.1, 2) ENVIRONMENTAL SCIENCE Subject Code: EVSC-101 Paper ID: A1109

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. Section A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. Section B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- **3.** Section C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION A

- **1.** Write short notes on:
 - (a) Distinguish primary pollutants from secondary pollutants with examples.
 - (b) What is greenhouse effect? Discuss the possible impacts of global warming.
 - (c) What is the significant difference between COD and BOD?
 - (d) Differentiate between photoautotrophs and chemoautotrophs.
 - (e) What are the limitations of any two of the non-conventional energy resources?
 - (f) What are the impacts of the depletion of Ozone Layer?
 - (g) Discuss the causes and consequences of ground level ozone
 - (h) What are environmental ethics?
 - (i) What are induced species?
 - (j) List components of ecosystem.

SECTION B

- **2.** (a) Write short notes on:
 - i. Biochemical oxygen demand (BOD).
 - ii. Eutrophication Causes and Consequences.
 - (b) Explain the structural and functional components of ecosystem.
- **3.** (a) Explain the concept of ecological pyramid. Discuss under what circumstances they are inverted.
 - (b) Critically evaluate the differences between suspended and attached growth processes

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used for treatment of wastewater.

- **4.** Give the classification of solid waste. Along with suitable diagram, describe sanitary landfills and incineration for the disposal of solid waste highlighting their advantages and disadvantages?
- 5. (a) Define food chain and food web. Explain why the concept of food web is more real ecologically than the concept of food chain?
 - (b) Mention any four environmental legislations.
- **6.** (a) Give a detailed description and diagrammatic representation of Nitrogen cycle?
 - (b) What are the disadvantages of population explosion in terms of food security?

SECTION C

- (a) Acid rain is one of the most serious environmental problems emerged due to air pollution. Explain the mechanism of acid rain formation and the effects associated with that.
 - (b) Elucidate the role of administration in management of disaster especially floods?
- 8. Describe briefly the trends in interactions or human settlements with environment with reference to biological and cultural needs.
- **9.** (a) Discuss the impact of thermal pollution on aquatic species. With this view, recommend measures to minimize the impact of thermal pollution on aquatic species.
 - (b) Differentiate between reservoir and exchange pool in biogeochemical cycles?