

# END TERM EXAMINATION

SECOND SEMESTER [B.TECH] MAY-JUNE 2017

Paper Code: ETEN 114

Subject: Environmental Studies

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q.No. 1 which is compulsory.  
Select one question from each unit

- Q1. Attempt all parts of the following: (2.5x10=25)
- What are the objectives and guiding principles of environmental education?
  - Explain that 'Decomposers are very important in an ecosystem'.
  - What are the differences between endangered species and endemic species?
  - Explain the concept of atom economy with suitable example.
  - Explain the term NOAEL and LOAEL.
  - What do you mean by Bioremediation?
  - What are the consequences of population growth?
  - Explain OTEC (Ocean Thermal Energy Conversion) Process in brief.
  - Explain the terms "toxicant, toxic, toxin and toxicity".
  - What do you mean by photosensitizers or Promoters? Why are these added to polymers? Discuss.

### Unit-I

- Q2. a) Explain the concept of food chain, food web and ecological pyramid. (4.5)  
b) Discuss the consumptive and productive values of biodiversity. (4)  
c) What do you understand by ecological succession? (4)
- Q3. a) Define ecosystem? Explain the structure and function of an ecosystem. (6.5)  
b) Write short notes on Hotspots of biodiversity. (3)  
c) "The flow of energy is one way and continuous in ecosystem". Justify. (3)

### Unit-II

- Q4. a) Write a detailed note on negative impact of modern agriculture on environment. (5)  
b) Write short notes on: i) Solar energy ii) Surface and subsurface mining iii) Water Logging (2.5+2.5+2.5)
- Q5. a) What are the alternative energy resources? Differentiate between renewable and non-renewable natural resources. (5)  
b) Write short notes on: i) Salinity ii) Hydrothermal energy iii) chemical fertilizers. (2.5+2.5+2.5)

### Unit-III

- Q6. Write short notes on the following: (4+4+4.5)  
a) Biochemical effect on Mercury b) Photo-biodegradable polymers  
c) Waste water treatment
- Q7. Write short notes on the following: (4+4+4.5)  
a) Photochemical smog b) Biopolymers and Bio-plastic  
c) Solid waste management

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Unit-IV

- Q8. Write short notes on the following: (4+4+4.5)
- Flood Disaster Management Map
  - Problems of urbanization
  - Environment Impact Assessment
- Q9. Explain the following terms: (4+4+4.5)
- Ozone layer depletion
  - Wasteland reclamation
  - Sustainable Development

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