

B.E./B.TECH. Degree Examination, January 2021  
Semester - III  
**GE16451 – Environmental Science and Engineering**  
(Regulation 2016)

Time: Three hours

Maximum : 80 Marks

Answer **ALL** questions**PART A - (8 X 2 = 16 marks)**

1. The organism which feed on dead organisms and wastes of living organisms are called
  - a. Chemotrophs
  - b. Carnivores
  - c. Detritivores
  - d. Decomposer
2. Chembarambakkam lake in the vicinity of our college falls under which of the following ecosystem:
  - a. Marine ecosystem
  - b. Lotic ecosystem
  - c. Lentic ecosystem
  - d. Estuary ecosystem
3. Which one of the following gases can deplete the ozone layer in the upper atmosphere?
  - a. Methane
  - b. Ammonia
  - c. Sulphur dioxide
  - d. Carbon dioxide
4. Population explosion has occurred in the last
  - a. 500 years
  - b. 700 years
  - c. 150 years
  - d. 300 years
5. How the biome does differ from an ecosystem?
6. When a sound does cause noise pollutions?
7. Bring out the adverse effects of land degradation.
8. What do you know about ECO Mark?

**PART B - (4 X16 = 64 marks)**

09. (a) (i) Justify India to be a Mega biodiversity nation with required data. **(8)**
- (ii) Elaborate the threats to biodiversity. **(8)**

**(OR)**

(b) State the role and responsibility of an individual in the prevention of pollution. **(16)**

10. (a) (i) Discuss the role of an individual in the conservation of natural resources. **(8)**

(ii) Brief the causes and effects of soil degradation. **(8)**

**(OR)**

(b) Elaborate in detail about any two of the renewable energy sources. **(16)**

11. (a) (i) Explain in detail about the strategies for water conservation. **(8)**

(ii) Bring out the effects of floods and the methods to face it. **(8)**

**(OR)**

(b) (i) Discuss the effect of construction of dams on forests and tribal people. **(8)**

(ii) Enlighten the various principle of green chemistry with suitable example. **(8)**

12. (a) Confer on the role of information technology in environment and human health. **(16)**

**(OR)**

(b) (i) Comment on the importance and methods of imparting value education. **(8)**

(ii) Correlate the environment and human health in detail. **(8)**