

Code: 20MC1402

**II B.Tech - II Semester – Regular Examinations – JULY 2022**

**ENVIRONMENTAL SCIENCE**  
**(Common for ECE, EEE, ME)**

Duration: 3 hours

Max. Marks: 70

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Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.  
2. All parts of Question must be answered in one place.

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**UNIT – I**

1. a) Differentiate the types of mining and discuss the impacts of mining with a case study in your local area. 7 M
- b) Identify what is deforestation? Explain the causes and consequences of deforestation in India. 7 M

OR

2. a) Classify the renewable and non renewable energy resources. 7 M
- b) Figure out some steps to conserve natural resources. 7 M

**UNIT – II**

3. a) Fabricate the Nutrient cycles with example. 7 M
- b) Elucidate Biodiversity and explain the types of biodiversity. 7 M

OR

4. a) Exemplify what is ecological succession? Mention the types of succession. 7 M
- b) Interpret how man creating a threat to biodiversity. 7 M

### **UNIT-III**

5. a) Examine the sources, effects and control measures of Water pollution. 7 M
- b) Analyze the sources, effects and control measure of Marine pollution. 7 M

OR

6. a) Classify the sources, effects and control measures of Air pollution. 7 M
- b) Categorize the types of E-Waste. Explain how to manage E-Waste? 7 M

### **UNIT – IV**

7. a) Construct the design for Rainwater harvesting. 7 M
- b) Analyse the concept of Ozone depletion and mention its effect on environment & human health. 7 M

OR

8. a) Construct the steps involved in EIA. 7 M
- b) Apply the concept of green buildings. 7 M

### **UNIT – V**

9. a) Categorize the factors effecting population explosion and write the impacts of population on environment & Health. 7 M
- b) List out the guidelines of water Act. 7 M

OR

10. a) Employ the role of Information technology in environment and health. 7 M
- b) List out the principles of Forest Act. 7 M