

Reg. No.

Question Paper Code

11727

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Second Semester

Computer Science and Engineering(Common to ALL other Branches, Fourth Semester Civil Engineering & Electronics and
Communication Engineering)**20BSCY201 - ENVIRONMENTAL SCIENCE AND ENGINEERING**

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,</i>
<i>K-Level, CO</i> |
|---|-------------------------------------|
| 1. What is meant by ecological succession? | 2,K1,CO1 |
| 2. Indicate the three types of biodiversity? | 2,K2,CO1 |
| 3. Identify the benefits of coral reefs. | 2,K2,CO2 |
| 4. Differentiate BOD and COD. | 2,K2,CO2 |
| 5. Illustrate any two conflicts over water. | 2,K2,CO3 |
| 6. What is geothermal energy (GTE)? | 2,K1,CO3 |
| 7. Contrast resettlement and rehabilitation. | 2,K2,CO4 |
| 8. What is the Dobson unit? | 2,K1,CO4 |
| 9. Define doubling time with reference to population. | 2,K1,CO6 |
| 10. Differentiate HIV and AIDS. | 2,K2,CO6 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Explain in-situ and ex-situ conservation of biodiversity along with their merits and limitations. 13,K2,CO1
- OR**
- b) Discuss the following in detail: (i) Energy flow in the ecosystem and (ii) Ecological pyramid. 13,K2,CO1
12. a) Explain the causes, effects and control measures of air pollution. 13,K2,CO2
- OR**
- b) Write briefly on Bhopal gas tragedy, Miniamatta disease and Chernobyl disaster. 13,K1,CO2
13. a) (i) Discuss the uses and effects of overutilization of surface and groundwater. 6,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

11727

(ii) Discuss the environmental effects of extracting and using mineral resources. 7,K2,CO3

OR

b) What is deforestation? What are the various causes of deforestation? Discuss its consequences. 13,K2,CO3

14. a) Discuss 12 principles of Green Chemistry. 13,K2,CO4

OR

b) Discuss the causes and effects of global warming. 13,K2,CO4

15. a) Explain the role of information technology in the environment and human health protection. 13,K2,CO6

OR

b) (i) What is value education? Discuss the concept of value education with the help of suitable examples. 6,K2,CO6

(ii) What do you mean by sustainable development? Explain the measures to attain sustainability. 7,K2,CO6

PART - C (1 × 15 = 15 Marks)

16. a) Explain the following: 15,K2,CO5

(i) Forest Conservation Act.

(ii) Wildlife Protection Act.

(iii) Environment Protection Act.

OR

b) Describe the method of Rainwater harvesting and watershed management to conserve water. 15,K2,CO5