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Question Paper Code	12522
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B.E. / B.Tech. / M.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

Second Semester

Computer Science and Engineering

(Common to ALL Branches)

20BSCY201- ENVIRONMENTAL SCIENCE AND ENGINEERING

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|---|-------------------------------|
| 1. Define ecological succession. | 2,K1,CO1 |
| 2. List the hotspots of biodiversity in India. | 2,K1,CO1 |
| 3. Explain point and non-point sources of water pollution. | 2,K2,CO2 |
| 4. What is meant by thermal pollution? | 2,K1,CO2 |
| 5. Interpret the environmental effects of extracting and using mineral resources. | 2,K2,CO3 |
| 6. What is blue baby syndrome? | 2,K1,CO3 |
| 7. What do you understand about global warming? | 2,K1,CO4 |
| 8. What is photochemical smog? | 2,K1,CO4 |
| 9. Discuss the doubling time with reference to annual population growth. | 2,K2,CO5 |
| 10. Define population explosion. | 2,K2,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Write short note on
- (i) Food chain and food web 6,K2,CO1
 - (ii) Ecological pyramid 7,K2,CO1

OR

- b) Explain in detail about in-situ and ex-situ conservation of biodiversity. 13,K2,CO1

12. a) Compute the major sources, effects and control measures of water pollution. 13,K3,CO2

OR

- b) Illustrate the role of an individual in prevention of environmental pollution. Why such an effort at individual level is important? *13,K3,CO2*
13. a) Summarize the term “modern agriculture”. Compute its impact and harmful effects due to the usage of fertilizers and pesticides. *13,K3,CO3*
OR
- b) Demonstrate the measures recommended for an individual to conserve the natural resource. *13,K3,CO3*
14. a) What is rain water harvesting? Analyze the types of rain water harvesting in detail. Why it is important now-a-days? *13,K4,CO4*
OR
- b) Examine the causes, effects, and control measures of (i) Ozone layer depletion, (ii) Acid rain. *13,K4,CO4*
15. a) Analyze the role of information technology in environment and human health. *13,K4,CO5*
OR
- b) Summarize the origin of HIV, modes of transmission, symptoms and control measures of AIDS. *13,K4,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Demonstrate the various steps involved in solid waste management in detail with flow sheet. *15,K3,CO6*
OR
- b) Illustrate the important provisions in Environmental protection act, air act and water act. *15,K3,CO6*