

Reg. No.

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B.E. / B. TECH DEGREE EXAMINATIONS, MAY 2023
 Fifth and Eighth Semester
GE16451 – ENVIRONMENTAL SCIENCE AND ENGINEERING
(Common to all branches)
(Regulation 2016)

TIME:3 HOURS

MAX. MARKS: 100

PART- A(10x2=20Marks)
 (Answer all Questions)

1. Write the highlights of Hot-spots of biodiversity.
2. How would you differentiate a food chain and food web?
3. List any two reasons for ground water depletion.
4. Compare renewable energy and non-renewable energy.
5. What are the causes for noise pollution?
6. How can the soil pollution be controlled?
7. Mention the reasons for acid rain.
8. Suggest any two salient features of air act.
9. How can be Dengue controlled?
10. How would you define the term population explosion?

PART- B (5x 16=80Marks)

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|-------------|--|-------|
| 11. (a) | (i) Explain the structure and functional aspects of grassland ecosystem. | (8) |
| | (ii) Elaborate on the in situ conservation of biodiversity. | (8) |
| (OR) | | |
| (b) | (i) Summarize the structure and functional aspects of forest ecosystem. | (8) |
| | (ii) Brief the ex situ conservation of biodiversity. | (8) |
| 12. (a) | Evaluate the sources, effects and control of air pollution. | (16) |
| | (OR) | |
| (b) | Discuss the sources, effects and control of water pollution. | (16) |
| 13. (a) | (i) Explain the advantages of the Big dams. | (8) |
| | (ii) Justify the fact that overgrazing causes imbalance in ecosystem. | (8) |
| (OR) | | |
| (b) | (i) Explain the impact of mining on environment. | (8) |
| | (ii) Discuss the factors leading to land degradation. | (8) |

14. (a) Evaluate the importance of principles of green chemistry in safeguarding environment. **(16)**

(OR)

(b) Analyze the salient features of Wild life (Protection) Act 1972 and Forest Conservation Act 1980. **(16)**

15. (a) (i) Discuss the role of Information Technology in environmental sustenance. **(8)**

(ii) Explain the highlights of child welfare program. **(8)**

(OR)

(b) (i) Examine the causes and control of Acquired Immuno Deficiency Syndrome (AIDS). **(8)**

(ii) Account for the importance of women welfare program. **(8)**
