QP Code: P25B022

Reg. No : .....

Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

II SEMESTER (CBCSS-PG) DEGREE EXAMINATION, MARCH 2025

M Sc Biotechnology

GBT2C03 : ENVIRONMENTAL BIOTECHNOLOGY

2024 Admission Onwards

Time:3 Hours **Maximum Weightage:30**

Part A

*Short answer type questions: Answer **any four** questions. Weightage **2** for each question.*
(4x2 = 8 Weightage)

1. List any 2 strategies of solid waste management and note on each. [BTL1]
2. Explain biofertilizers. [BTL2]
3. Classify the degradation of hydrocarbons. [BTL2]
4. If we need to eliminate biomedical waste which treatment should we rely and why. [BTL3]
5. How would you show your understanding of IPM? [BTL3]
6. How can you examine role of degradative plasmids? [BTL4]
7. How can you elaborate on the adverse effect of pesticides on environment? [BTL5]

Part B

*Short essay-type questions: Answer **any four** questions. Weightage **3** for each question.*
(4x3 = 12 Weightage)

8. What are biosensors? Explain the principle. [BTL1]
9. What approach would you use in phytoremediation? [BTL2]
10. How can you show your understanding on measurement of water pollution? [BTL3]
11. What motive is there in using trickling filters? Explain the principle. [BTL3]
12. How can you analyze bioplastics? [BTL4]
13. How can you make a distinction between activated sludge and oxidation ponds? [BTL4]
14. Describe green composite. [BTL2]

Turn Over

Part C

*Essay-type questions: Answer **any two** questions. Weightage **5** for each question.*
(2x5 = 10 Weightage)

15. Describe on global environmental problems. [BTL1]

16. How would you classify primary and secondary waste water treatment? [BTL2]

17. Explain how biosensors can act as environmental pollution detectors? [BTL3]

18. Classify in detail about the types of pollution. [BTL4]

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