

23P218

(Pages: 2)

Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ESC2 C08 - ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY

(Environmental Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Who proposed the theory of spontaneous generation? How was it disproved?
2. Define commensalism. Write a good example of commensalism.
3. What is biosorption? Explain.
4. Discuss the advantages and disadvantages of constructed wetlands.
5. What is the difference between PHA and PHB?
6. What is a bioscrubber? Write down its applications.
7. What is the purpose of a green belt?

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. What are the basic applications of nucleotide sequencing?
9. Write a note on Sulfur cycle.
10. How do microorganisms affect our atmosphere and climate?
11. What is UASB reactor? Explain.
12. Define micropropagation. What is the importance of micropropagation?
13. What are the environmental advantages of recycling?
14. What are biosensors? Explain with examples.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Explain the reproduction in fungi.
16. What is GEM? Explain the merits and demerits of GEM.
17. What steps are usually taken to purify drinking water? Explain.
18. Explain the various processes involved in phytoremediation.

(2 × 5 = 10 Weightage)
