

23P316

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Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ZOL3 C09 - MICROBIOLOGY AND BIOTECHNOLOGY

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

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

1. Explain the types of viruses.
2. Define cloning vectors.
3. Discuss about molecular probes.
4. Discuss about DNA fingerprinting.
5. Explain about RNAi.
6. Mention about the application of biotechnology on removal of oil spills.
7. Define TRIPS.

(4 × 2 = 8 Weightage)

Part-B

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

8. Describe culture media.
9. Explain about antibiotics with any two examples.
10. Explain the details of Microsatellites (SSR).
11. Discuss about DNA sequencing.
12. Describe the procedure of Short gun method.
13. Describe Baculovirus.
14. Discuss the details on ethical and social implications of genetic engineering.

(4 × 3 = 12 Weightage)

Part-C

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

15. Describe major characteristics used in microbial taxonomy with an account on Bergey's manual.
16. Explain microbial growth.

17. Discuss in detail various fields of environmental microbiology.

18. Discuss the variants of PCR.

(2 × 5 = 10 Weightage)
