

21P316

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Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ZO3 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 types of nutrition in bacteria.
2. What are antibiotics and explain their mechanism of action?
3. Distinguish between Blunt end and cohesive end ligation.
4. Define Sanger's method.
5. Differentiate natural and artificial media.
6. Define Intellectual Property Protection.
7. Explain about ethics of social acceptance of industrial biotechnology.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain taxonomic ranks and phylogenetic studies in microbial taxonomy.
9. Explain bacterial growth and different methods to measure bacterial growth.
10. Explain lactic acid fermentation and its types.
11. Discuss the importance of Real Time PCR.
12. Explain the details of AFLP.
13. Describe the procedure of DNA micro injection.
14. Describe NPV.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain the structural properties of virus and detail the various human diseases caused by virus.
16. Discuss about branches, scope and importance of Biotechnology.
17. Discuss the detailed applications of Biotechnology in animal and human healthcare.
18. Discuss the details of cloning procedure.

(2 × 5 = 10 Weightage)
