

22P316

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Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(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 use of petroff, Haussuer counting chamber and spread plate.
2. What is a biogas plant?
3. Define Viruses.
4. Define Sanger's method.
5. Discuss the applications of Biotechnology in forensic medicine.
6. Mention about the application of biotechnology on removal of oil spills.
7. Explain about the social acceptance of biotechnology.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain history of microbiology.
9. Explain nutritional requirements and nutritional types.
10. Differentiate between sterilization and disinfection.
11. Discuss the importance of inverse PCR and its steps.
12. Explain the details of RFLP.
13. Describe the procedure of virus mediated lipofection method.
14. Explain about Biofertilizers.

(4 × 3 = 12 Weightage)

Part-C

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

15. Describe in detail about the human diseases caused by the bacteria.

16. Describe the various steps involved in cloning.
17. Explain the mechanism of animal cell culture.
18. Discuss the details of Intellectual Property Rights.

(2 × 5 = 10 Weightage)
