

19P316

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS-PG)

CC19P ZO3 C09 - MICROBIOLOGY AND BIOTECHNOLOGY

(Zoology)

(2019 Admission Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Attempt any *four* questions.

1. Bergey's Manual.
2. Mechanism of gram staining.
3. Gene libraries.
4. Differentiate between homolactic and heterotactic fermentation.
5. Restriction enzymes.
6. Antisense technology.
7. Green biotechnology.

(4 x 2 = 8 Weightage)

II. Attempt any *four* questions.

8. IPR and patenting of biological materials.
9. Write notes on microbial bioremediation.
10. Methods of transgenesis.
11. Explain DNA sequencing methods.
12. Describe pure culture preparation of microorganisms.
13. Briefly describe the different variants of basic PCR.
14. Write an account on microbial drug resistance.

(4 x 3 = 12 Weightage)

III. Attempt any *two* questions.

15. Utilisation of energy by bacterial cells.
16. Explain human diseases caused by bacteria.
17. Discuss the role of biotechnology in human health care.
18. Explain nucleic acid blotting techniques. Add a note on their importance.

(2 x 5 = 10 Weightage)
