

C 22097

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Name.....

Reg. No.....

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Microbiology

MBG 2B 02—MICROBIAL PHYSIOLOGY AND TAXONOMY

(2021 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A*Answer atleast **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall ceiling 24.*

1. Siderophore.
2. Passive transport.
3. Osmophilic organisms.
4. Transport media.
5. Log phase.
6. Diauxic culture.
7. Lawn culture.
8. Synchronous culture.
9. Numerical taxonomy.
10. Cladistics.
11. Plaque.
12. Classical taxonomy.

(8 × 3 = 24 marks)

Turn over

Section B

*Answer atleast **five** questions.*

Each question carries 5 marks.

All questions can be attended.

Overall ceiling 25.

13. What are the major parameters and environmental factors affecting the microbial growth ?
14. Explain the major methods used to isolate the pure cultures.
15. Discuss methods used for the cultivation of anaerobic bacteria.
16. Examine various methods used for the measurement of bacterial growth.
17. Outline the major reproduction modes of prokaryotic cell.
18. Illustrate the life cycle of a T4 bacteriophage.
19. Narrate various methods of the cultivation of viruses.

(5 × 5 = 25 marks)

Section C

*Answer any **one** question.*

The question carries 11 marks.

20. Elaborate various type of media used for the cultivation of bacteria with suitable examples.
21. What are the major criteria used for the classification of bacteria ? Discuss with suitable examples.

(1 × 11 = 11 marks)