

C 82447

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Name.....

Reg. No.....

SECOND SEMESTER B.A./B.Sc. DEGREE EXAMINATION, APRIL 2020

(CBCSS—UG)

Microbiology

MBG 2B 02—MICROBIAL PHYSIOLOGY AND TAXONOMY

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answers)

Answer all questions.

Each question carries 2 marks. Ceiling : 20 marks.

1. Chemolithoautotrophy.
2. Symport.
3. Lag phase.
4. Selective media.
5. Plaque assay.
6. Simple matching co-efficient.
7. Define strain.
8. Continuous culture.
9. Psychrophiles.
10. Siderophores.
11. Prophage.
12. rRNA sequencing.

Section B (Short Essays/Paragraph)

Answer all questions.

Each carries 5 marks. Ceiling : 30 marks.

13. Classify micro-organisms based on their oxygen requirement.
14. Write briefly on numerical taxonomy.
15. Mention different viral cultivation methods.
16. Explain bacterial growth curve.

Turn over

17. Describe important culture preservation strategies.
18. Mention about viral and bacteriophage quantification methods.
19. List out methods of nutrient uptake by bacterial cells.

Section C (Essays)

*Answer any **one** question.*

The carries 10 marks. Ceiling : 10 marks.

20. Discuss different types of culture methods of bacteria and their uses.
21. Write briefly about various criteria used in the classification of micro-organisms.