

C 43196

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Name.....

Reg. No.....

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2023

Microbiology

MBG 2B 02—MICROBIAL PHYSIOLOGY AND TAXONOMY

(2019—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

*Wherever needed answers must be supported by structural illustration and diagrams***Part A***Answer **all** questions in one **or** two sentences.**Each question carries 2 marks.*

- 1 Photolithoautotroph.
- 2 Microaerophiles.
- 3 Fastidious organisms.
- 4 Enrichment media.
- 5 Stationary phase.
- 6 Photoautotrophs.
- 7 Plaque.
- 8 Synchronous culture.
- 9 Robinson Cooked meat medium.
- 10 Active transport.
- 11 Lysogeny.
- 12 Adansonian classification

(Ceiling 20 Marks)

Turn over

Part B

*Answer **all** questions.*

Each question carries 5 marks.

- 13 Discuss the major types pure culture techniques.
- 14 Inspect the major methods used for the cultivation of anaerobic micro-organism ?
- 15 Formulate the mechanism of active transport with example.
- 16 Illustrate the bacterial growth curve.
- 17 What are the major modes of reproduction in the case of bacteria ?
- 18 Inspect various methods used for the preservation of pure cultures.
- 19 Illustrate the life cycle of a virus which infect bacteria.

(Ceiling 30 Marks)

Part C

*Answer any **one** question.*

The question carries 10 marks.

- 20 Elaborate on various type of culture media used for the cultivation of bacteria in a microbiology laboratory.
21. Outline the classification of bacteria based on their nutritional requirement.

(1 × 10 = 10 marks)