



K23U 2000

Reg. No. :

Name :

II Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN MICROBIOLOGY
2C02 MCB : Basic Microbiology – II

Time : 3 Hours

Max. Marks : 32

SECTION – A

Short Answer. Answer **all** questions. **Each** question carries **1** mark.

1. What is Culture media ?
2. Cryopreservation.
3. Phycobilisomes.
4. HFr cells.
5. Cardinal Temperature. (5×1=5)

SECTION – B

Short Essay. Answer **any four** questions. **Each** question carries **2** marks.

6. Sexduction.
7. Generation time.
8. Stationary phase.
9. Conjugation.
10. T4 phage. (4×2=8)

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SECTION – C

Essay. Answer **any three** questions. **Each** carry **3** marks.

11. Explain the significance of various phases of bacterial growth.
12. What is generalised transduction – with neat diagram ?
13. Bacterial heterotrophism.
14. Oxygenic bacterial photosynthesis.
15. Various types of culture media used to grow bacteria – with examples. (3×3=9)

SECTION – D

Long Essay. Answer **any two** questions. **Each** carry **5** marks.

16. Explain the mechanism of Anoxygenic Photosynthesis.
 17. What is bacterial growth curve ? Discuss different factors affecting bacterial growth.
 18. Discuss on gene transfer mechanisms in bacteria.
 19. Explain the life cycle of Bacteriophage. (2×5=10)
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