



**K22U 1301**

**Reg. No. :** .....

**Name :** .....

**II Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, April 2022  
(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. **(5×1=5)**

1. Phage induction.
2. Factors affecting bacterial growth.
3. Generation time.
4. Prophage.
5. Release of phages.

**SECTION – B**

Short essay : Answer **any 4** questions. **Each** question carries **2** marks. **(4×2=8)**

6. Notes on measurement of bacterial growth.
7. Burst size.
8. Structure of T4 phage.
9. Discuss the Griffith experiment.
10. Notes on cultivation of phages.

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K22U 1301



SECTION – C

Essay : Answer **any 3** questions. **Each** question carries **3** marks. **(3×3=9)**

11. What are the different types of culture media used for bacterial isolation ?
12. Briefly discuss about the growth curve of bacteria.
13. Notes on specialized transduction with example.
14. Explain the temperate phage cycle mechanism.
15. What is bacterial heterotrophism ?

SECTION – D

Long essay : Answer **any 2** questions. **Each** question carries **5** marks. **(2×5=10)**

16. Explain the details of bacterial photosynthesis with suitable examples.
  17. Discuss the detailed mechanisms of virulent phage cycle with suitable diagram.
  18. Explain the gene transfer mechanisms in bacteria with suitable diagram.
  19. Discuss the various pure culture techniques and culture preservation methods.
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