



K21U 7223

Reg. No. :

Name :

II Semester B.Sc. Degree (CBCSS – OBE – Regular) Examination, April 2021
(2020 Admission)

COMPLEMENTARY ELECTIVE COURSE IN LIFE SCIENCES (ZOOLOGY)
AND COMPUTATIONAL BIOLOGY
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. Temperate phage.
2. Adsorption.
3. Photosynthetic pigments in bacteria.
4. Restriction enzymes.
5. Phage cultivation.

SECTION – B

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

6. Hfr transfer.
7. Culture preservation methods.
8. Sulphur assimilation in bacteria.
9. Synthesis of phage components.
10. RNA phages.

P.T.O.



SECTION – C

Essay. Answer **any 3** questions. **Each** question carries **3** marks.

(3×3=9)

11. Lederberg and Tatum experiment on conjugation.
12. Briefly discuss the bacterial photosynthesis process.
13. Discuss the sulphur assimilation mechanism in bacteria.
14. Life cycle of virulent phage.
15. Explain the various techniques used for the measurement of bacterial growth.

SECTION – D

Long Essay. Answer **any 2** questions. **Each** question carries **5** marks.

(2×5=10)

16. Discuss the different types of gene transfer mechanisms with suitable examples.
 17. Explain the growth curve of bacteria with suitable diagram and equations
 18. Discuss the detailed mechanisms of temperate phage cycle with suitable diagram.
 19. Detailed account on various media used in microbiological laboratory.
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