



K24U 1627

Reg. No. :

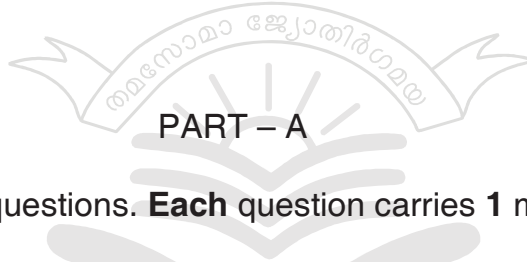
Name :

**Second Semester B.Sc. Degree (CBCSS – OBE-Regular/Supplementary/
Improvement) Examination, April 2024
(2019 Admission Onwards)**

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

Time : 3 Hours

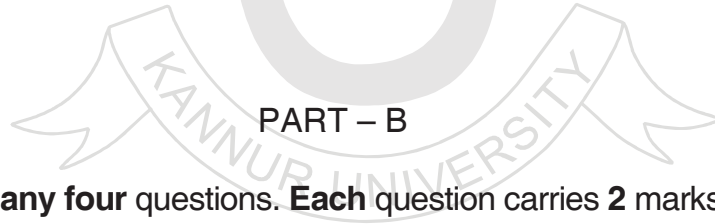
Max. Marks : 32



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

(5×1=5)

1. Aerobes and anaerobes.
2. Bacteria classification based on pH.
3. Reaction centres.
4. Heterotrophism.
5. T4 phage.



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

(4×2=8)

6. Differentiate the lag and log phase.
7. Notes on bacterial photosynthetic pigments.
8. What is transformation ? Short notes on its types.
9. What is generation time ? Explain it.
10. Explain the process of : $F^+ \times F^-$.

P.T.O.



PART – C

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

11. Explain the types of pure culture methods used in microbiology.
12. Notes on sulphur assimilation by microbes.
13. Detailed notes on RNA phages with suitable examples.
14. Describe the transduction process and its types.
15. Explain the mechanism of conjugation.

PART – D

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

16. Describe the various types of media used for cultivation of bacteria.
17. Explain the mechanism of anoxygenic photosynthesis with suitable diagram and examples.
18. Give a detailed account on various methods used for the measurement of microbial growth.
19. Explain the steps involved in lytic and lysogenic cycle of bacteriophage.

