



K22U 3427

Reg. No. :

Name :

I Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN MICROBIOLOGY
(For Biochemistry/Biotechnology/Life Sciences (Zoology) and
Computational Biology)

1C01MCB : Basic Microbiology – 1

Time : 3 Hours

Max. Marks : 32

PART – A

Short answer. Answer **all** questions. **Each** question carries **1** mark : (5×1=5)

1. Resolving power.
2. Bacterial ribosomes.
3. Lag phase.
4. Symport.
5. LPCB.

PART – B

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

6. Koch's postulates.
7. AFS.
8. Theory of Biogenesis.
9. Differentiate passive diffusion from facilitated diffusion.
10. Simple staining.

P.T.O.



PART – C

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

11. Bacterial Flagella.
12. Contributions of Louis Pasteur to Microbiology.
13. Fluorescent Microscopy.
14. Nutritional types of microorganisms.
15. Define bacterial endospore. With a diagram explain the ultra-structure and its functions.

PART – D

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

16. Describe the differences between prokaryotic and eukaryotic cell structure with suitable diagrams.
17. Explain the major historical developments in Microbiology.
18. Describe the various methods of chemical sterilization.
19. Mechanism of nutrient transport in bacterial cell.

