



K23U 4078

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, November 2023

(2019 Admission Onwards)

CORE COURSE IN MICROBIOLOGY

1B01MCB : Fundamentals of Microbiology

Time : 3 Hours

Max. Marks : 40

PART – A

Short answer. Answer **all** questions. **Each** question carries **1** mark : (6×1=6)

1. Iodophors.
2. Pour plate method.
3. Agar.
4. Gas vacuoles.
5. Alexander Flemming.
6. Wet mount.

PART – B

Short essays. Answer **any 6** questions. **Each** question carries **2** marks : (6×2=12)

7. Differentiate spheroplast and protoplast.
8. Germ theory of disease.
9. Refractive index.

P.T.O.



K23U 4078



10. Basal body.
11. Lyophilization.
12. Rideal Walker Method.
13. CFU.
14. Transport media.

PART – C

Essay. Answer **any 4** questions. **Each** question carries **3** marks : (4×3=12)

15. Discuss about the scope of microbiology.
16. Principle of dark field microscopy.
17. Write a short essay on inclusion bodies.
18. Describe Ziehl Neelsen staining technique.
19. Moist heat sterilization.
20. Antibiotics.

PART – D

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

21. Discuss about the pure culture techniques.
  22. Discuss about the structure of gram-negative bacterial cell wall with labeled diagram.
  23. Discuss about different types of culture media used for the cultivation of bacteria.
  24. Discuss about the physical methods of sterilization.
-