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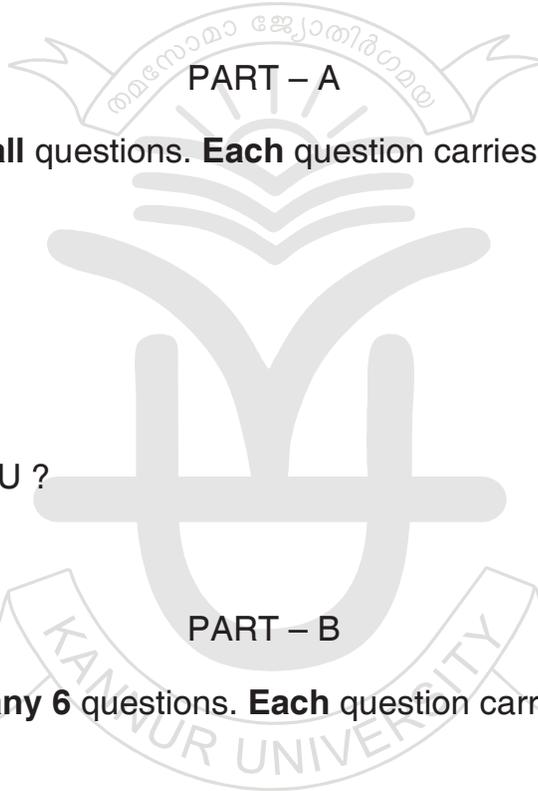
Reg. No. :

Name :

**I Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)
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. Volutin granules.
2. Dimorphic fungi.
3. Anionic dyes.
4. Lyophilization.
5. How to calculate CFU ?
6. Numerical aperture.

PART – B

Short essays. Answer **any 6** questions. **Each** question carries **2** marks.

(6×2=12)

7. Cold sterilization.
8. Basal structure of bacterial flagella.
9. Cell wall of gram positive bacteria.
10. Anaerobic culture.
11. Differentiate enriched and enrichment media.
12. Importance of Glycocalyx.
13. Briefly describe cultivation of viruses.
14. Describe fungal staining method.

P.T.O.



PART – C

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

15. Write a note on pure culture techniques.
16. Describe the principle and specimen preparation for SEM.
17. Working principle of phase contrast microscope.
18. Rideal-Walker Test.
19. Describe the differences between eubacteria and archaebacteria.
20. Explain endospore staining in detail.

PART – D

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

21. Give an account of contributions of any five prominent scientists in microbiology.
22. Describe the principle, mode of action and use of chemical antimicrobial agents.
23. Discuss the major antibiotic groups and their mode of action.
24. Discuss various methods used for the preservation of microorganisms.

