



K20U 3327

Reg. No. :

Name :

**I Semester B.Sc. Degree (CBCSS (OBE) – Reg./Sup./Imp.)
Examination, November 2020
(2019 Admn. Onwards)
CORE COURSE IN MICROBIOLOGY
1B01MCB – Fundamentals of Microbiology**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer **all** questions.

(6×1=6)

1. Autoclave.
2. Define Bacteriophage.
3. Differential staining.
4. Define Protoplast.
5. Define Plasmids.
6. Define Asepsis.

**PART – B
(Short Essay)**

Answer **any six** questions.

(6×2=12)

7. Spontaneous generation.
8. Types and arrangement of Bacterial flagella.
9. Koch postulates.
10. Magnification.
11. Action of Tetracyclin.
12. Cultivation of algae.
13. Metachromatic granule.
14. Principles of gram staining.

P.T.O.



PART – C
(Essay)

Answer **any 4** questions.

(4×3=12)

15. Difference between Prokaryotes and Eukaryotes.
16. Phenol Coefficient.
17. Fluorescent Microscopy.
18. Endospore formation and its function.
19. Laminar flow hood.
20. Brief about different types of culture media.

PART – D
(Long Essay)

Answer **any two** questions.

(2×5=10)

21. Describe various method of heat sterilization.
 22. Describe electron microscope.
 23. Explain the ultra structure of bacteria with a neat diagram.
 24. Briefly mention about pure culture techniques.
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