

21190



I SEMESTER B.Sc. EXAMINATION – MARCH/APRIL 2022

SCHEME: CBCS (NEP)

041

MICROBIOLOGY PAPER-I

GENERAL MICROBIOLOGY

Time: 2 ½ Hours

Max Marks: 60

Instructions to Candidates: 1. All questions are compulsory.

2. Draw neat labelled diagrams wherever necessary.

A. Define any FIVE of the following.

2x5=10

1. Peroxisomes
2. Binary fission
3. Mordant
4. Spontaneous generation theory
5. Pili
6. Nucleoid
7. Chemotaxis

B. Write short notes on any FIVE of the following.

6x5=30

8. Prevention of microorganisms by **agar stab** and **slant culture**.
9. Endospore formation.
10. Structure of Endoplasmic reticulum.
11. Eukaryotic flagella.
12. Antony Van Leeuwenhoek.
13. Construction of a Compound microscope.
14. Negative staining of bacteria.

C. Explain any TWO of the following.

10x2=20

15. Describe the cell wall structure of **gram positive bacteria**.
16. What is Moist heat method of sterilization? Explain the construction, working principle and uses of **Autoclave**.
17. Explain the structure and functions of **Mitochondria**.
18. List out the contributions of **Robert Koch** to the field of microbiology.

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