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

SCHEME: SEMESTER- CBCS

MICROBIOLOGY PAPER-I

INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY

Time: 03 Hours

Max Marks: 80

Instructions to Candidates: 1. Answer all the questions.

2. Draw neat labelled diagrams wherever necessary.

I. Answer the following:

4x15=60

1. Describe the construction, working principle and uses of Phase contrast microscope.

OR

List the contributions of Louis Pasteur and Joseph Lister to the field of Microbiology.

2. What is filtration? Explain the different types of filters used in sterilization techniques.

OR

Explain the following:

- a) Wet mounting method
- b) Hanging drop technique

3. Describe the following:

- a) *Microcystis*
- b) *Spirochaetes*

OR

What are Endospores? Explain the structure and formation of Endospores in bacteria.

4. Describe the thallus structure, reproduction and economic importance of *Rhizopus*.

OR

Give an account of the structure and replication of Influenza Virus.

II. Answer any FOUR of the following:

4x5=20

5. Whittaker's classification.
6. Alcohol as disinfectants.
7. Arrangement of bacterial cells.
8. Structure of *Entamoeba*.
9. Importance of Viruses.
10. *Actinomyces*.

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