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B.M.S COLLEGE FOR WOMEN AUTONOMOUS

BENGALURU – 560004

SEMESTER END EXAMINATION – JANUARY/FEBRUARY 2023

B.Sc, BOTANY- I Semester

Microbial Diversity and Technology

(NEP Scheme 2021-22 onwards F+R)

Course Code: BOT1DSC01

Duration: 2 ½ Hours

QP Code: 1018

Max. Marks: 60

Instructions:

1. Answer all the parts
2. Draw diagrams wherever necessary

PART- AA. Answer any **Five** of the following in two or three sentences (5 x2=10)

1. Mention any two contributions of Alexander Flemming.
2. Write five kingdom system of classification of Whittaker.
3. Name any two synthetic media for microbes.
4. Expand MTCC and ATCC.
5. Draw a neat labeled diagram of SARS COV-2.
6. Mention the function of Mesosomes in Bacteria.
7. Write any two chemicals used for sterilization.

PART-BB. Write critical notes on any **Four** of the following (4x 5=20)

8. Contributions of Robert Koch.
9. Water Micro-organisms.
10. Sterilization by dry heat and moist heat.
11. Nutritional types of microbes.
12. Economic importance of viruses.
13. AM Fungi.

PART-CC. Give a comprehensive account of any **Three** of the following (3x10=30)

14. Principles of Gram's Staining.
15. Microbial Growth and Measurement.
16. Lysogenic Cycle in T2 Bacteriophage.
17. Uredosorus and Teleutosorus Stages in *Puccinia*.
18. Write short notes on
 - a) Prions
 - b) Citrus Canker.

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