

B.M.S COLLEGE FOR WOMEN AUTONOMOUS
BENGALURU – 560004

END SEMESTER EXAMINATION – SEPTEMBER / OCTOBER 2022

B.Sc - II Semester
Biotechnology-Microbiological Methods

Course Code: BT2DSC02
Duration: 2 ½ Hours

QP Code: 2019
Max marks: 60

Instruction: Answer all the sections.

SECTION-A

I. Answer the following in one word or sentence each. (10×1=10)

1. Expand SEM.
2. Who is father of Modern Micro Biology?
3. What is RPM?
4. Define pasteurization.
5. HEPA Filters.
6. UV rays.
7. Define selective media.
8. Give two examples of simple stains.
9. What is MBC?
10. Name any two antiviral agents.

SECTION-B

II. Write Short notes on the following. (5×2=10)

1. TLC.
2. Alcohol.
3. Gram's staining.
4. Disc diffusion technique.
5. Haemoagglutination.

SECTION-C

III. Answer any FOUR of the following. Each question carries FIVE marks. (4×5=20)

1. Write the contributions of Louis Pasteur
2. Give an account on membrane filter.
3. Write the construction and working principle of autoclave.
4. Explain different types of plating methods.
5. Add a note on cultivation of anaerobic bacteria.
6. Explain the mechanism of action of Acyclovir.

SECTION-D

IV. Answer any TWO of the following. Each question carries TEN marks. (2×10=20)

1. Explain the construction, working principle and application of TEM.
2. What is sterilization? Explain the mechanism of action and applications of Aldehydes, Phenols and Halogens.
3. Explain the mechanism of action and adverse reactions associated with Amphotericin B and Griseofulvin.
4. Explain different types of staining techniques.
