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B.M.S COLLEGE FOR WOMEN, AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – JANUARY/FEBRUARY 2023

B.Sc. Microbiology-I Semester

GENERAL MICROBIOLOGY
(NEP Scheme 2021-22 onwards)

Course Code: MB1DSC01

Duration: 2 ½ Hours

Instructions: 1. Answer all the questions

2. Draw diagrams wherever necessary

QP Code: 1020

Max. Marks: 60

I. Answer all the following.

(2x5=10)

1. Explain the Spontaneous generation theory.
2. Explain the dark field microscope
3. What is the role of a capsule?
4. Explain filtration as a method of sterilization.
5. Write the role of Mitochondria.

II. Answer any 4 of the following.

(4x5=20)

6. Explain the principle and construction of Fluorescence microscope
7. Explain the radiation as a method of sterilization.
8. Write the procedure of endospore staining.
9. Give the structure of the prokaryotic ribosome and its function.
10. Differentiate the nuclear material of prokaryotes and eukaryotes.
11. Briefly explain asexual reproduction in Fungi.

III. Answer any 2 of the following.

(2x10=20)

12. Discuss the various methods of preservation of cultures.
13. Describe the structure of chloroplast and its functions.
14. Write the contributions of Louis Pasteur and Alexander Fleming.
15. Explain the structure of bacterial flagella, its types and its functions.

IV. Answer all 10 of the following.

(1x10=10)

16. Who discovered Bacillus anthracis?
 - a) Koch
 - b) Pasteur
 - c) Hansen
 - d) Jenner

17. Which of the following sterilizing agent has a role of UHT?
- Hot air oven
 - Ethyl alcohol
 - Pasteurization
 - Autoclave
18. Cold sterilization is a term used for
- Radiation
 - Filtration
 - Moist heat
 - Dry heat
19. The dye Methylene blue belongs to which group?
- Acidic dye
 - Basic dye
 - Neutral dye
 - Both b and c
20. In gram staining after decolourization, Bacillus will show
- Only Crystal violet in the cell wall
 - Crystal violet-Iodine complex
 - Grams iodine and LPS in the cell wall
 - None of the above
21. The two domains to which prokaryotes are classified into are:
- Bacteria and Protista
 - Bacteria and Archaea
 - Archaea and Eukarya
 - Eukarya and Monera
22. From which structure is a mesosome derived from?
- Plasmid
 - Cell wall
 - Ribosome
 - Cell membrane
23. Endoplasmic reticulum is present in
- Bacillus
 - TMV
 - Amoeba and Yeast
 - Bacillus and Yeast
24. Peptidoglycan present in
- Mycobacterium
 - Staphylococcus
 - E.coli and Mycobacterium
 - All the above
25. Palladium is used in the
- Transmission Electron Microscope
 - Fluorescent Microscope
 - Dark field Microscope
 - Phase Contrast Microscope

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