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B.M.S COLLEGE FOR WOMEN
BENGALURU – 560004

I SEMESTER END EXAMINATION – JAN/FEB-2024

B.Sc. – BOTANY
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 sections.
2. Draw diagrams wherever necessary.

SECTION-A

I. Answer any FIVE of the following. Each question carries TWO marks. (5x2=10)

1. Write Whittaker's kingdom of Classification.
2. Mention any two important Contributions of Louis Pasteur.
3. What is Synthetic media?
4. What is Lyophilisation?
5. What is tyndallisation ?
6. What are Viroids?
7. Differentiate between Archaeobacteria and Eubacteria.

SECTION-B

II. Answer any FOUR of the following. Each question carries FIVE marks. (4x5=20)

8. Short note on Air borne Micro-organisms with examples.
9. Write five important contributions of Antony Von Leeuwenhoek.
10. Sterilization by dry heat and moist heat.
11. Brief account on Microbial growth and measurement.
12. Microbial Culture Collection Centers and their importance

13. Classification of Bacteria based on shape.

SECTION-C

III. Answer any THREE of the following. Each question carries TEN marks. (3x10=30)

14. Working principles and Applications of light field and Dark field Microscope.

15. Explain Nutritional types of Microbes.

16. General structure and classification of Viruses

17. Economic importance of Bacteria.

18. a) Structure of Bacteriophage.

b) Sandal spike.



B.M.S EDUCATIONAL TRUST Ph: 080-26601836
B.M.S COLLEGE FOR WOMEN,
Autonomous Institution Affiliated to Bengaluru City University
NAAC Accreditation: “A” Grade
 Bugle Rock Road, Basavanagudi, Bengaluru – 560 004.

Question Paper Template with Course Outcome and Bloom’s Taxonomy

Time:		Marks:60		
2.5 Hours		Marks	CO	Bloom’s level
1.	a) Whittaker’s kingdom of Classification	2	5	3
	b) Mention any two important Contributions of Louis Pasteur	2	5	2
	c) What is Synthetic media?	2	4	3
	d)What is Lyophilisation	2	4	3
	e) What is tyndallisation?	2	4	3
	f) What are Viroids?	2	5	3
	g) Differentiate between Archaeobacteria and Eubacteria.	2	5	3
2.	a) Short note on Air borne Micro-organisms with examples.	5	4	4
	b) Write five important contributions of Antony Von Leeuwenhoek.	5	5	5
	c) Sterilization by dry heat and moist heat.	5	4	3
	d) Brief account on Microbial growth and measurement.	5	6	3
	e) Microbial Culture Collection Centers and their importance	5	6	5
	f) Classification of Bacteria based on shape.	5	5	5
3.	a) Working principles and Applications of light field and Dark field Microscope.	10	4	3
	b) Explain Nutritional types of Microbes.	10	4	2

	c) General structure and classification of Viruses	10	3	4
	d) Economic importance of Bacteria.	10	4	3
e)	a) Structure of Bacteriophage.	10	4	4
f)	b) Sandal spike.			

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