

B.Sc. Semester - 1 (CBCS) Examination
Oct/Nov-2025 (New Course)
MICRO-BIOLOGY(CORE)

Time: 2:30 Hours**Marks:70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que.1(A)	Give specific answers.	(04)
	1. Define: Microbiology 2. Write any two field in which microorganism are involved. 3. Write two name of scientist who involve in history of microbiology. 4. Define: Spontaneous generation.	
Que.1(B)	Answer in Brief. (Any one out of two)	(03)
	1. Any three Applied areas of Microbiology. 2. Write the contribution of Francisco Reddy in field of microbiology.	
Que.1(C)	Write a Note on. (Any one out of two)	(07)
	1. Write detail note on Louis Pasteur regarding Biogenesis. 2. Write and explain Koch postulates.	
Que.2(A)	Give specific answers.	(04)
	1. Define: Microscopy. 2. Write the two names of fluorescent dye. 3. In Bright field Microscopy field is bright. (True/False) 4. Write the full name of SEM.	
Que.2(B)	Answer in Brief. (Any one out of two)	(03)
	1. Short note on: Stains. 2. Write the roll of Decolourizers and Fixatives in microscopy.	
Que.2(C)	Write a Note on. (Any one out of two)	(07)
	1. Bright field Microscopy. 2. Phase Contrast Microscopy.	
Que.3(A)	Give specific answers.	(04)
	1. Define: Cytoplasm. 2. Give the full form LPS. 3. What is protoplast? 4. Endospores is resting form of bacteria. (True/False)	
Que.3(B)	Answer in Brief. (Any one out of two)	(03)
	1. Flagella. 2. Types of spores.	
Que.3(C)	Write a Note on. (Any one out of two)	(07)
	1. Cell wall of Bacteria. 2. Structure and formation of Endospores.	
Que.4(A)	Give specific answers.	(04)
	1. Define: Nutrition. 2. Explain: Bacteriological media. 3. Microorganism need oxygen is called anaerobic. (true/False) 4. Write two name of carbon source use in bacteriological media.	

- Que.4(B) Answer in Brief. (Any one out of two) (03)
1. Selective media with examples.
 2. Differentiate media with examples.
- Que.4(C) Write a Note on. (Any one out of two) (07)
1. Temperatures conditions required for growth.
 2. Gaseous requirements for growth.
- Que.5(A) Give specific answers. (04)
1. What is the most common mode of cell division in bacteria?
 2. What is the term used to describe the time required for a bacterial population to double?
 3. Define: Bacterial Growth Curve.
 4. In which phase secondary metabolites produced?
- Que.5(B) Answer in Brief. (Any one out of two) (03)
1. Generation time.
 2. Growth rate.
- Que.5(C) Write a Note on. (Any one out of two) (07)
1. Bacterial Growth Curve.
 2. Reproduction of Bacteria.
