



U7758

Reg. No.:

Name:.....

**University of Kerala**

First Semester Degree Examination, November 2024

Four Year Under Graduate Programme

Discipline Specific Core Course

MICROBIOLOGY

UK1DSCMBY101- INTRODUCTION TO MICROBIAL WORLD

Academic Level: 100-199

Time: 1½ hours

Max. Marks: 42

Part A.

Answer All Questions, Objective Type. 1 Mark Each.

(Cognitive Level: Remember/Understand) 6 Marks. Time: 6 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
1.	Name the scientist who is known as father of modern microbiology?	Remember	CO2
2.	Give an example for an organism involved in the production of antibiotics?	Remember	CO1
3.	Describe the primary component of bacterial cell wall?	Understand	CO3
4.	Name the glassware designed by Louis Pasteur for conducting his experiments?	Remember	CO2
5.	Give an example for culture media used for culturing anaerobic organisms	Understand	CO4
6.	Explain beta hemolysis?	Understand	CO4

Part B.

Answer All Questions. Short Answer Questions. 2 Marks Each.

(Cognitive Level: Remember/Understand) 8 Marks. Time: 24 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
7	Discuss the cause of Botulism?	Understand	CO1
8.	List the contributions of Antony Van Leewenhoek?	Remember	CO2
9.	Describe the morphology of <i>Rhizopus</i> , highlighting its key structural features?	Understand	CO3
10.	Explain the use of HEPA filters?	Understand	CO4

Part C

Answer all questions, choosing among options within each question.

Long Answer. 7 Marks Each.

(Cognitive Level: Remember/Understand) 28 Marks. Time: 60 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
11.	A)Discuss the role of microbes in the production of various industrial products. OR B)Explain the pathogenic role of microorganisms in various diseases?	Understand	CO1
12.	A)List out the contributions of Louis Pasteur? OR B)Discuss how the theory of spontaneous generation was disproved?	Remember	CO2
13.	A)Describe the ultrastructure of a bacterial cell with a supportive illustration? OR B)Explain in detail the morphology and structure of fungus?	Understand	CO3
14.	A)Discuss the various types of culture media used for microbial growth? OR B)With a neat labelled diagram explain the working of an autoclave?	Understand	CO4