

Bankura University
B.Sc 1st Semester (Honours) Theory Examination,2021
Microbiology

Course ID: 12212

Course Code: SH/MCB/102/C-2

Course Title: Bacteriology

Time: 1h 15 min

Full Marks: 25

The figures in the margin indicate full marks

Answer all the questions.

UNIT I

1. Answer *any five* of the following questions: (1x5=5)

- a) What is O-antigen?
- b) Define spheroplast .
- c) What is pseudomurein?
- d) Mention one differential media.
- e) What is lag phase of bacterial growth?
- f) What do you mean by auxotrophs?
- g) Where do you get glycocalyx?
- h) What is the function of episome?

UNIT II

2. Answer *any two* of the following questions: (5x2=10)

- a) Draw ultrastructure of bacterial flagella.
- b) How Archaeobacteria differs from Eubacteria?
- c) What are the differences between cell wall of Gram positive and Gram negative bacteria?
- d) Write a short note on bacterial plasmid.

UNIT III

3. Answer *any one* of the following questions: (10x1=10)

- a) Describe briefly the structure and formation of bacterial endospore with suitable diagram.
5+5=10
- b) Briefly enumerate the process of physical methods of control of microbial organisms. How hand sanitizer sanitize our hand?
8+2=10