

Seat No. 308087

QP-2217

Total No. of Pages : 2

OCT_NOV_2024 WINTER EXAMINATION

11670 Bachelor of Science

Sub. Name: Microbiology Paper I (Microb I)

Sub. Code: 106817

Day and Date: DECEMBER ,11-12-2024

Total Marks: 40

Time: 02.30 PM To 04:00 PM

- Instructions:**
1. All questions are compulsory
 2. Draw neat labelled diagrams wherever necessary
 3. Figures to the right indicate full marks

Q1) Rewrite the following sentences by choosing correct alternative.

[8]

- i. ----- is the unique component of bacterial cell wall.
A. Peptidoglycan
B. Protein
C. Polysaccharide
D. Lipid
- ii. Bacteria are classified under the kingdom -----
A. Protista
B. Plantae
C. Monera
D. Animalia
- iii. Bacterial capsules contain about ----- % of organic compounds.
A. 50
B. 02
C. 98
D. 10
- iv. Mesosomes are the invagination of -----
A. Cell wall
B. Ribosome
C. Cell membrane
D. Capsule
- v. ----- developed antiseptic surgery.
A. Joseph Lister
B. Von Dusch
C. Robert Koch
D. Louis Pasteur
- vi. ----- is an example of non symbiotic nitrogen fixer.

[1]

P.T.O.



- A. E. coli
- B. Frankia
- C. Rhizobium
- D. Azotobacter

vii. ----- give motility to bacteria.

- A. Cell membrane
- B. Flagella
- C. Cell wall
- D. Pili

viii. ----- is the smallest unit of classification

- A. Genus
- B. Family
- C. Species
- D. Domain

Q2) Q2) Long Answer Questions. (Attempt Any [16]
Two)

1. Describe in detail the Carl Woese's three kingdom classification system.
2. Draw well labeled diagram of bacterial cell. Enlist differences between prokaryotic cell & eukaryotic cell.
3. Discuss the structure, chemical composition & functions of bacterial cell membrane

Q3) Write short note (Any four)

[16]

- a. Describe structure of endospore with a labeled diagram.
- b. Common and Scientific Name.
- c. Types of plasmid.
- d. Discuss structure & function of pili.
- e. Alexander Flemming.
- f. Structure & function of ribosome.

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[2]