

B.Sc. (Part-I) NEP (Semester -I) Examination, Oct 2023
MICROBIOLOGY Paper I
Introduction to Microbiology
Sub code – 88185

Date : Wednesday, 08/11/2023
Time: 2.30 to 4.30 pm

Total Marks: 40

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

Question No. 1. Rewrite the sentences by selecting correct alternative given below. (8)

1. Small pox vaccine was invented by -----
 i) Edward Jenner ii) Louis Pasteur iii) Robert Koch iv) Joseph Lister
2. Bacteria are classified under the kingdom -----.

 i) Monera ii) Protista iii) Plantae iv) Animalia
3. ----- gives final remark on spontaneous generation theory.

 i) Van Helmont ii) Francesco Redi iii) Louis Joblot iv) Louis Pasteur
4. ----- granules in the cytoplasm of bacteria serve as source of Phosphate.

 i) PHB ii) Volutin iii) Cyanophycin iv) Glycogen
5. ----- Cell wall component is present only in gram positive cell wall.

 i) Protein ii) Peptidoglycan iii) Phospholipid iv) Teichoic acid
6. Among the following ----- bacterium has more than one chromosome.
 i) *E. coli* ii) *Pseudomonas* iii) *Borellia* iv) *Salmonella*
7. Three Kingdom classification system was proposed by -----

 i) Carl Woese ii) Whittaker iii) Louis Pasteur iv) Joseph Lister
8. ----- type of ribosome is present in bacteria.

 i) 70S ii) 65S iii) 80S iv) 75S

Que. No. 2 Attempt following question (Any two) (16)

1. Draw a neat labeled diagram of typical bacterial cell. Explain Structure and function of bacterial Flagella.
2. Give beneficial and harmful activities of microorganisms.
3. What are Endospore? Describe in brief the structure of endospore and process of sporulation?

Que. No. 3 Write short note on (Any four) (16)