

Instructions:

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.
- d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means

Q1. Long Answer questions

2 X 10 = 20

- a. Discuss the Morphology & Pathogenicity of Mycobacterium tuberculosis. Add a note on Laboratory diagnosis of Pulmonary Tuberculosis
- b. Discuss the Morphology. Culture characteristics & laboratory diagnosis of Salmonella typhi.

Q2. Short Answer Questions

4 X 5= 20

- a. Enumerate various methods of gene transfer. Discuss any one of them in detail
- b. Write down the toxins & enzymes of Staphylococcus aureus.
- c. Describe in brief the VDRL TEST
- d. Segregation of biomedical waste.

Q3. Very Short Answer Questions

1 X 10= 10

- a. Name any two natural water bacteria.
- b. Name any two modes of transmission of Nosocomial pathogens.
- c. Enumerate any four causative bacteria of Meningitis.
- d. Enumerate the methods of demonstration of Capsule.
- e. Enumerate the nonsporing anaerobic gram negative bacilli
- f. Name the causative bacteria of food poisoning
- g. Name any two virulence factors of Pneumococcus
- h. Give examples of zoonotic disease.
- i. pigments produced by pseudomonas species.
- j. two chemicals used in Cold sterilization.