

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. Classify Mycobacteria. Describe in brief about laboratory diagnosis of pulmonary tuberculosis. Add a note on recent advances in laboratory diagnosis.
- b. Name two organisms causing sore throat and discuss in detail about the laboratory diagnosis of diphtheria.

Q2. Short Answer Questions

4 X 5 = 20

- a. Mechanisms of microbial pathogenicity.
- b. Laboratory diagnosis of Salmonella Typhi.
- c. Anaerobic culture methods.
- d. Bacterial Flagella.

Q3. Very Short Answer Questions

1 X 10 = 10

- a. Enumerate two zoonotic bacterial diseases.
- b. What is Satellitism? Name the organism producing it.
- c. Enumerate two capsulated bacteria.
- d. What is Target haemolysis? Mention the organism producing it.
- e. Mention the temperature and holding period during Inspissation.
- f. Enumerate two tests used for determining efficacy of disinfectants.
- g. Mention two contributions of Robert Koch
- h. Enumerate two organisms causing urinary tract infection.
- i. Enumerate two organisms causing atypical pneumoniae
- j. Mention two standard tests for syphilis.