

QP CODE: 104023

Reg. No:

**First Year B.Sc Dialysis Technology Supplementary Examinations
June 2024**

Basics of Microbiology

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay

(20)

1. Mode of transmission, specimen collection and laboratory diagnosis of pulmonary tuberculosis in detail. Add a note on Mantoux test and its interpretation.

Short Notes

(10x8=80)

2. Dermatophytes – Classification, diseases caused by them and its Laboratory diagnosis.
3. List the various species of Clostridia and the infections produced by them. Discuss the laboratory diagnosis and immunoprophylaxis of Clostridium tetani infection.
4. Describe the principle and various types of ELISA with its applications.
5. Draw and label Gram negative bacterial cell wall. What are the principles of Gram's staining.
6. Laboratory diagnosis of syphilis.
7. Morphology of HIV. Explain in detail on the laboratory diagnosis of HIV.
8. Opportunistic infections in hemodialysis patients.
9. Life cycle and laboratory diagnosis of Ascaris lumbricoides.
10. Chemical disinfectants used in hospitals and its applications
11. Components of standard precautions.
