

**First Year B.Sc Dialysis Technology Degree Supplementary
Examinations June 2025****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. Define immunity. Write five differences between active and passive immunity. Discuss in detail about different types of vaccines and national immunization schedule

Short Notes**(10x8=80)**

2. Disinfection of dialysis machine after use in Hepatitis B positive patient
3. List the hospital acquired infections. Pathogenesis and risk factors for catheter related blood stream infection
4. Prophylaxis and lab diagnosis of poliomyelitis
5. Detail on water testing in dialysis settings
6. Biomedical waste management in dialysis unit
7. List the common fungal infections in post-transplant patients. Detail on candidiasis
8. Detail on standard precautions. What are the infection control precautions to be taken in post-transplant patients by a health care personnel
9. Discuss the morphology and life cycle of *E. histolytica* with a diagram. Add a note on lab diagnosis of amoebic dysentery
10. Discuss the principle of autoclave. Mention its applications. Write a note on plasma sterilization
11. Discuss the lab diagnosis of typhoid fever emphasizing the importance of blood culture
