

**First Year B.Sc Dialysis Technology Supplementary Examinations**  
**July 2023**

**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 sterilisation and disinfection. Discuss in detail the principle, functioning and applications of autoclave. Add a note on disinfection of dialysis machine.

**Short Notes**

**(10x8=80)**

2. Explain bacterial cell wall using a labelled diagram. Add a note on differential staining methods.
3. Vaccination in dialysis patients.
4. Discuss the morphology, life cycle and laboratory diagnosis of plasmodium falciparum infection in man.
5. Candidiasis.
6. Transmission, laboratory diagnosis and prevention of HIV infection.
7. Biomedical waste management.
8. ELISA.
9. Lab diagnosis and prevention of poliomyelitis.
10. Discuss about personal protective equipments.
11. Enumerate etiological agents of Enteric fever. Discuss laboratory diagnosis of *Salmonella typhi*.

\*\*\*\*\*