

**First Year B.Sc Dialysis Technology Regular/Supplementary  
Examinations November 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. Modes of transmission of Hepatitis B Infection. Discuss in detail on the laboratory diagnosis of this Infection. Write a note on Hepatitis B Immunoprophylaxis.

**Short Notes**

**(10x8=80)**

2. Describe the morphology, life cycle and laboratory diagnosis of Ascaris lumbricoides.
3. Discuss on Biomedical Waste management. Add a note on disposal of used dialyzers.
4. Immunological basis for renal allograft rejection.
5. Widal Test – its principle and interpretation.
6. Methods of moist heat sterilization.
7. Candida infections and its laboratory diagnosis.
8. Define Health Care Associated Infections (HAIs). Discuss on Catheter Associated. Urinary Tract Infection (CAUTI) and its prevention.
9. Specimen collection and laboratory diagnosis in a case of diphtheria.
10. Enumerate the different types of vaccines with examples.
11. Life Cycle of Taenia solium and its laboratory diagnosis.

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