

**QP CODE: 104023**

**Reg. No: .....**

**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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