

**QP CODE: 104023**

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

**First Year B.Sc Dialysis Technology Regular/Supplementary  
Examinations February 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. Enumerate the various blood – borne viral infections. Discuss on the laboratory diagnosis of HIV. Add a note on Window period.

**Short Notes**

**(10x8=80)**

2. Draw a neat labelled diagram of Autoclave. Describe its working principle and its Clinical applications
3. Enumerate opportunistic fungi. Discuss Cryptococcus neoformans in detail.
4. Graft versus host reaction
5. List the diseases caused by Streptococcus pyogenes. Add a note on its laboratory diagnosis.
6. Differences between bacterial and amoebic dysentery. Describe the morphology and laboratory diagnosis of Entamoeba histolytica.
7. Enumerate causative agents of Urinary Tract Infection (UTI) and discuss in detail on the laboratory diagnosis of UTI.
8. Laboratory diagnosis of rabies and its post-exposure prophylaxis.
9. Describe in detail on VDRL test. What are the differences between VDRL and RPR tests.
10. Life cycle and laboratory diagnosis of Plasmodium falciparum infection.
11. Discuss on enteric fever and its laboratory diagnosis.

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