

**QP CODE: 104023**

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

**First Year B.Sc Dialysis Technology Regular/Supplementary  
Examinations February 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 Sterilization and disinfection. Classify disinfectants and write one use for each of them.

**Short Notes**

**(10x8=80)**

2. Briefly describe the diseases caused and lab diagnosis of cryptococcus.
3. Describe the life cycle and lab diagnosis of Taenia solium.
4. Enumerate four bacteria causing diarrhoea in man. Discuss the lab diagnosis and preventive measures to be taken in Vibrio cholerae infection.
5. National immunization schedule.
6. Detail the principle of Widal test. Mention briefly on interpretation of Widal titres.
7. Discuss the lab diagnosis of HIV. Write a note on Post Exposure Prophylaxis.
8. Enumerate opportunistic fungal infections. Discuss in detail, Aspergillosis.
9. Write five major infections produced by Staphylococcus aureus. Discuss in detail, sample collection and lab diagnosis of Staphylococcal infection.
10. List the diseases detected by rapid serological tests. Detail the principle and interpretation of commonly done rapid tests.
11. Discuss the life cycle and lab diagnosis of Ancylostoma duodenale.

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