

**First Year B.Sc Dialysis Technology Degree Regular/Supplementary
Examinations November 2025**

**Basics of Microbiology
(2020 and 2024 Scheme)**

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. Detail on moist heat sterilization. Write two methods to test efficacy of sterilant

Short Notes

(10x8=80)

2. List four intestinal nematodes causing infection in man. Detail with a diagram life cycle and lab diagnosis of ascaris lumbricoides
3. Write briefly on the disease caused by coryn bacterium diphtheria. What are the precautions to be taken while collecting sample from such a case. Detail on the lab diagnosis of diphtheria
4. Name four bacteria causing diarrhea. Detail on sample collection and lab diagnosis of cholera
5. Brief on histocompatibility antigen. What is graft versus host reaction
6. List four diseases detected using ELISA test. What is the principle of ELISA test
7. Enumerate the bacteria causing typhoid fever. Describe different laboratory methods for diagnosing this condition
8. Define sterilization and disinfection. Name the common antiseptics used in dialysis unit. Write briefly on high level disinfectants
9. Discuss the life cycle and lab diagnosis of plasmodium falciparum infection
10. Define catheter related blood stream infection. Discuss the pathogenesis risk factors and preventive measures of this condition
11. Discuss on blood spill management and biomedical waste segregation in hospital

CORRECTION / NO-CORRECTION FILE
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QPCODE: 104023

Dated: 17-11-2025

Question No.2

Corrected as “List four intestinal nematodes causing infection in man. Detail with a diagram life cycle and lab diagnosis of Ascaris lumbricoides.”

Question No.3

Replaced with “Write the pathogenesis and lab diagnosis of pulmonary tuberculosis.”

Question No.4

Replaced with “ Describe Biofilm and its clinical importance ”

Question No.9

Corrected as “Discuss the life cycle and lab diagnosis of Plasmodium falciparum infection”

Question No.10

Corrected as “Define catheter related blood stream infection. Discuss the pathogenesis , risk factors and preventive measures of this condition”

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS