

Reg. No:

**Second Year B.Sc Dialysis Technology Degree Regular/Supplementary
Examinations February 2025**

**Paper III – Applied Aspects of Pathology and Microbiology Related to Dialysis
(2020 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*

QP CODE: 214023

Applied Aspects of Pathology

Max. Marks: 50

Essay

(10)

1. List the causes of Cell injury. Describe the cellular adaptations with examples.

Short Notes

(5x8=40)

2. Renal pathology in Hypertension.
3. Discuss the morphology of post streptococcal glomerulonephritis.
4. End stage renal disease.
5. Classify Acute leukaemias. Write briefly about chronic myeloid leukaemia.
6. List the types of emboli. Briefly describe pulmonary thromboembolism.

QP CODE: 215023

Applied Aspects of Microbiology

Max. Marks: 50

Essay

(10)

1. Write the mode of transmission and clinical manifestations of HIV virus. Write in detail the laboratory diagnosis. Explain the measures to be taken following needle stick injury. (2+2+4+2)

Short Notes

(5x8=40)

2. Enumerate the mode of transmission of Hepatitis B, Describe in detail hepatitis B vaccine.
3. Enumerate the conditions for blood culture, Describe in detail procedure for collection and transport for blood culture.
4. Write the bundle care approach to prevent central line associated blood stream infections.
5. Describe in detail the bacteria causing opportunistic infections in dialysis patients and their laboratory diagnosis.
6. Write the agents causing urinary tract infection. Describe the methods of sample collection and transport of specimens to diagnose UTI.
