

**Second Year B.Sc Dialysis Technology Supplementary Examinations  
September 2023**

**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. Discuss on the adaptations in cell injury with examples.

**Short Notes**

**(5x8=40)**

2. Classification of glomerulonephritis based on microscopic and immunofluorescence findings.
3. Factors affecting wound healing and the complications of wound healing.
4. Pathology of urinary tract infections.
5. Define leukocytosis. Discuss on the causes of leukocytosis.
6. Classification of renal diseases.

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**QP CODE: 215023**

**Applied Aspects of Microbiology**

**Max. Marks: 50**

**Essay**

**(10)**

1. Name the viruses causing hepatitis. Write the mode of transmission and the laboratory diagnosis of Hepatitis B in detail. **(2+3+5)**

**Short Notes**

**(5x8=40)**

2. How will you collect blood samples for culture in establishing the diagnosis of catheter associated blood stream infections.
3. Discuss about the common infections seen in dialysis patients.
4. Explain the measures to be taken to prevent catheter associated urinary tract infection.
5. Discuss the steps to be followed after needle stick injury.
6. Write briefly about the infection control measures in dialysis units.

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