

Reg. No: .....

**Second Year B.Sc Dialysis Technology Degree Regular/Supplementary  
Examinations November 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. Explain the causes and pathology of chronic kidney diseases

**Short Notes**

**(5x8=40)**

2. Systemic effects of inflammation
3. Congenital diseases of urinary system
4. Malignant nephrosclerosis
5. Define necrosis and mention about different types of necrosis with examples
6. Haemophilia - etiology, types, clinical features and lab findings

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**QP CODE: 215023**

**Applied Aspects of Microbiology**

**Max. Marks: 50**

**Essay**

**(10)**

1. Enumerate the hepatotropic viruses, write in detail the Pathogenesis, lab diagnosis and prophylaxis of hepatitis B infection (2+3+2+3)

**Short Notes**

**(5x8=40)**

2. Modes of transmission and prevention of HIV infection
3. Define HCAI, list the various HCAI and write the bundle care approach of ventilator associated pneumonia
4. Write the contact precautions to be taken in health care settings, and write the steps of hand washings
5. What are the different sampling methods used for culture and sensitivity
6. Write briefly the infection control measures in dialysis units

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