

# Question Paper

Exam Date & Time: 04-Jul-2022 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - JUNE/JULY 2022  
SUBJECT: RRT1201 - KIDNEY DISEASE -II  
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Classify acid-base disorders. Describe metabolic acidosis causes, clinical features, and treatment options in chronic kidney disease. (20)
- 2) Define uremia. Explain causes, clinical features, and management of uremia in chronic kidney disease. (20)
- 3) Explain the types of bone disorders in chronic kidney disease. (10)
- 4) List cardiovascular disorders seen in chronic kidney disease. Explain causes, clinical features, and treatment of pericarditis in chronic kidney disease. (10)
- 5A) Explain the causes of renal anemia in chronic kidney disease. (5)
- 5B) Define hyperkalemia. List the causes of hyperkalemia in chronic kidney disease. (5)
- 5C) Define proteinuria. List the diagnostic methods for proteinuria. (5)
- 5D) What is a Protein Energy Wasting? List the causes of malnutrition in chronic kidney disease. (5)
- 5E) What is a kidney biopsy? List the indications for kidney biopsy. (5)
- 5F) What is hyponatremia? List the causes of hyponatremia in kidney failure. (5)
- 6A) List any two skin disorders in chronic kidney disease patients. (2)
- 6B) What is polyuria? (2)
- 6C) Define glomerular filtration rate. (2)
- 6D) List the routine blood investigation done in chronic kidney disease patients. (2)
- 6E) What are the side effects of erythropoietin? (2)

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