

Question Paper

Exam Date & Time: 04-Dec-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. (RRT & DT) DEGREE EXAMINATION - DECEMBER 2019

SUBJECT: BDT 101 - KIDNEY DISEASE - I

(2016 RV SCHEME)

Wednesday, December 04, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer ALL questions.

- 1) Define chronic kidney disease and acute kidney injury. Explain the causes and management of both. (20)
- 2) Explain the microscopic anatomy of the kidney with neat labelled diagram. (20)
- 3) List the functions of the normal kidney and describe renal vasculature. (10)
- 4) Discuss renal replacement therapies. (10)

- 5) **Answer the following questions:**
- 5A) Explain tubuloglomerular feedback. (5)
- 5B) Write a note on steps of urine formation. (5)
- 5C) Write a note on clinical features of AKI. (5)
- 5D) Discuss living kidney donor transplantation. (5)
- 5E) Describe glomerular filtration barrier. (5)
- 5F) List the indications for dialysis. (5)

- 6) **Answer the following questions in brief:**
- 6A) What is GFR? Write the normal value. (2)
- 6B) Write any two differences between extracellular fluid and intracellular fluid. (2)
- 6C) Name functional unit of the kidney and its number. (2)
- 6D) What are the indications for kidney transplantation? (2)
- 6E) Name any two endocrine functions of the kidney. (2)

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