

Question Paper

Exam Date & Time: 27-Jun-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. RENAL REPLACEMENT THERAPY AND DIALYSIS TECHNOLOGY DEGREE EXAMINATION
- JUNE/JULY 2022

SUBJECT: RRT5203 - EXTRACORPOREAL BLOOD THERAPIES IN NEPHROLOGY
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define Kuf and KoA. Explain the requirements and procedure of high efficiency and high flux hemodialysis. (20)
- 2) Explain different types of techniques involved in poison removal. Outline the indications and contraindications of hemoperfusion. (20)
- 3A) Explain the role of continuous renal replacement therapy modalities in acute kidney injury patients. (10)
- 3B) Outline the complications of plasmapheresis. Compare the replacement solutions used in plasmapheresis. (10)
- 3C) List any four indications of liver dialysis. Explain the procedure of the molecular adsorbent recirculating system. (10)
- 3D) Explain the clinical setup required for single needle dialysis and outline its advantages and disadvantages. (10)
- 4A) Define high cut-off hemodialysis and outline its importance. (5)
- 4B) Outline the prescription of continuous veno-venous hemodiafiltration for chronic kidney disease. (5)
- 4C) Define sorbent hemodialysis system. Explain the principles of sorbent hemodialysis. (5)
- 4D) Outline any two complications of hemoperfusion. (5)

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Question Paper

Exam Date & Time: 29-Jun-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. RENAL REPLACEMENT THERAPY AND DIALYSIS TECHNOLOGY DEGREE EXAMINATION
- JUNE/JULY 2022

SUBJECT: RRT5202 - COMPLICATIONS OF KIDNEY DISEASE AND DIALYSIS
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define renal osteodystrophy. Explain the types of mineral bone disorders in chronic kidney disease. (20)
- 2) Classify the types of acid-base disorders. Explain metabolic acidosis in chronic kidney disease. (20)
- 3A) List the endocrine disorders in kidney failure. Outline growth deficiency in chronic kidney disease and its management. (10)
- 3B) Explain the skin disorders due to the consequence of kidney diseases. (10)
- 3C) Outline the treatment options for viral hepatitis. Explain the effect of hepatitis B in chronic kidney disease. (10)
- 3D) Explain the causes and management of catheter-related complications in peritoneal dialysis. (10)
- 4A) Outline the clinical features and management of fluid disorder in chronic kidney disease patients. (5)
- 4B) Explain the sleep hygiene measures for chronic kidney disease patients. (5)
- 4C) Classify the common neuropathies and myopathies in chronic kidney disease. (5)
- 4D) Outline the complications due to the consequence of long term dialysis. (5)

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