

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (NEPHROLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER I

Monday, July 18, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long questions:**

1. How is uric acid handled by kidneys? Mention common causes of Hyperuricemia. Outline the impact of Hyperuricemia on kidney.

(20 marks)

2. Discuss mechanisms of acidification by kidney and etiology and management of distal renal tubular acidosis.

(20 marks)

3. **Write short notes on:**

3A. Loop diuretics

3B. Urea reduction ratio

3C. Erythropoietin hypo responsiveness in chronic kidney disease

3D. Rhabdomyolysis

3E. Pathogenesis of preeclampsia

3F. Bone histology in chronic kidney disease mineral bone disorders

(10 marks × 6 = 60 marks)



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SUBJECT: PAPER II

Tuesday, July 19, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long questions:**

1. Discuss the clinical approach to diagnosis and management of acute kidney injury.
(20 marks)

2. Describe pathogenesis, pathology, etiology, clinical features and treatment of thrombotic microangiopathies.
(20 marks)

3. **Write short notes on:**

3A. Drug dosing in CKD

3B. Tumor lysis syndrome.

3C. Daprodustat

3D. Differential diagnosis of Kidney Disease in plasma cell dyscrasia

3E. Confirmatory tests for renal artery stenosis

3F. Uremic Pruritus

(10 marks × 6 = 60 marks)



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SUBJECT: PAPER III

Wednesday, July 20, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

Long question:

1. Discuss criteria for brain stem death and management of a potential deceased organ donor.
(20 marks)
2. Discuss guidelines for management of peritoneal dialysis associated peritonitis.
(20 marks)

Short Notes:

- 3A. Management of Hepatitis C virus infection in chronic kidney disease stage 5
 - 3B. Azathioprine
 - 3C. Haemodialyzer membrane
 - 3D. Peritoneal access devices
 - 3E. Ultrafiltration failure in peritoneal dialysis
 - 3F. Chronic allograft dysfunction
- (10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
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SUBJECT: PAPER IV

Thursday, July 21, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long questions:**

1. Describe Pretransplant immunological assessment and its relevance for management and prognosis in kidney transplant.

(20 marks)

2. Describe role of microbiota in immunity and their role in kidney disease.

(20 marks)

3. **Write short notes on:**

3A. Renin inhibitors in Nephrology

3B. Bioimpedance spectroscopy in management of a dialysis patient

3C. Monoclonal gammopathy of renal significance

3D. IgG4 Related Kidney disease

3E. Eculizumab

3F. Autophagy in kidney disorders

(10 marks × 6 = 60 marks)

