

Reg. No.

MANIPAL UNIVERSITY
DM (NEPHROLOGY) DEGREE EXAMINATION – JULY 2016
SUBJECT: PAPER II: CLINICAL NEPHROLOGY

Thursday, July 14, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long questions:**

1. Discuss the etiology, pathogenesis, pathology and management of rapidly progressive glomerulonephritis. (20 marks)

2. Describe the risk factors and pathophysiology of progression of chronic kidney disease and various measures to slow the same. (20 marks)

3. **Write short notes on:**

3A. Diagnosis and treatment of class 4 lupus nephritis

3B. Collapsing focal segmental glomerulosclerosis

3C. Dysproteinemia

3D. Etiology and treatment of hypercalcemia

3E. Immunosuppressive treatment of minimal change disease.

3F. Evaluation of isolated hematuria.

(10 marks × 6 = 60 marks)



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DM (NEPHROLOGY) DEGREE EXAMINATION – JULY 2016
SUBJECT: PAPER III: RENAL REPLACEMENT THERAPY

Friday, July 15, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Question:**

1. Describe the short term complications during haemodialysis and etiology, pathogenesis and management of hypotension during haemodialysis. (20 marks)

2. Define delayed allograft function, its aetiology and prevention and management of the same. (20 marks)

3. **Short Notes:**

3A. Haemodiafiltration

3B. Prescription for plasma exchange in anti-Glomerular basement disease

3C. Haem dialyser membrane characteristics

3D. Induction therapy for renal transplant

3E. Peritoneal equilibration test

3F. Lymph cytotoxic WBC cross match

(10 marks × 6 = 60 marks)



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DM (NEPHROLOGY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER IV: RECENT ADVANCES

Saturday, July 16, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

Long questions:

1. Discuss the pathogenesis of acute kidney injury mechanisms of epithelial repair and regeneration after acute kidney injury and newer modalities in treatment.

(20 marks)

2. Discuss pathogenesis of vascular calcification in chronic kidney disease, clinical manifestations evaluation and management of the same.

(20 marks)

Write short notes on:

3A. Dense deposit disease

3B. Use of vaptans in kidney disease

3C. Nonpharmacological treatment of hypertension

3D. Treatment modalities for Immunoglobulin A Nephropathy

3E. Management of severe lupus nephritis

3F. Wearable artificial kidney

(10 marks × 6 = 60 marks)

