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## DM (NEPHROLOGY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER I: BASIC SCIENCE

Wednesday, July 13, 2016

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions. Ø
- Long questions:
- Discuss the pathogenesis, differential diagnosis and evaluation and management of 1. hyponatremia. (20 marks)

Describe phosphorous homeostasis and its relevance in management of chronic kidney 2. disease.

(20 marks)

- Write short notes on: 3.
- Diuretic resistance
- Immunologic tolerance
- 3C. Urea reduction ratio
- 3D. Renin Angiotensin Aldosterone System blockade
- Glomerular filtration rate estimation 3E.
- Assessment of proteinuria 3F.

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$ 

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# 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: Ø
- Discuss the etiology, pathogenesis, pathology and management of rapidly progressive 1. glomerulonephritis.

(20 marks)

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

(20 marks)

- Write short notes on: 3.
- 3A. Diagnosis and treatment of class 4 lupus nephritis
- Collapsing focal segmental glomerulosclerosis
- 3C. Dysproteinemia
- 3D. Etiology and treatment of hypercalcemia
- Immunosuppressive treatment of minimal change disease. 3E.
- Evaluation of isolated hematuria. 3F.

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$ 

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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: Ø
- Describe the short term complications during haemodialysis and etiology, pathogenesis and 1. management of hypotension during haemodialysis.

(20 marks)

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

- **Short Notes:** 3.
- 3A. Haemodiafiltration
- 3B. Prescription for plasma exchange in anti-Glomerular basement disease
- 3C. Haem dialyser membrane characteristics
- 3D. Induction therapy for renal transplant
- Peritoneal equilibration test 3E.
- Lymph cytotoxic WBC cross match

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$ 

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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)

- 3. 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

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$