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SUBJECT: PAPER I

Monday, December 11, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Z** Long questions:
- 1. Describe Potassium balance and management of hypokalemia

(20 marks)

2. Describe the ultra-structure of Glomerulus and role of podocyte in Health and disease (20 marks)

- 3. Write short notes on:
- 3A. Tubulo glomerular feedback
- 3B. Role of ultrasound in kidney imaging
- 3C. Renal physiology in pregnancy
- 3D. Angiotensin receptors
- 3E. Organic anion transport in kidney tubules
- 3F. Mechanism of renal fibrosis

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

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**SUBJECT: PAPER II** 

Tuesday, December 12, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

#### **Z** Long questions:

1. Describe Etiology, pathogenesis, pathophysiology, Management of infection related glomerulonephritis.

(20 marks)

2. Describe mechanisms, pathogenesis, pathology and management of renovascular hypertension.

(20 marks)

#### 3. Write short notes on:

- 3A. Radiocontrast nephropathy
- 3B. Fabry's Disease
- 3C. Reflux nephropathy
- 3D. Snake bite associated acute Kidney Injury
- 3E. Sodium Glucose Transport (SGLT2) Inhibitors
- 3F. Management of Immunoglobulin A (IgA) Nephropathy

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

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**SUBJECT: PAPER III** 

Wednesday, December 13, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

#### Answer ALL the questions.

#### ∠ Long question:

1. Discuss classification, characteristics of hemodialysis membranes and features of dialyzer reuse.

(20 marks)

2. Describe strategies for renal transplant across blood group barriers.

(20 marks)

- 3. Write short notes on:
- 3A. Hemoperfusion
- 3B. MTor inhibitors
- 3C. Hypotension in hemodialysis
- 3D. Prophylaxis against infections in kidney transplant
- 3E. Assessment of peritoneal dialysis adequacy
- 3F. Recurrent Glomerular disease in Kidney transplant

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



Reg. No.
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**SUBJECT: PAPER IV** 

Thursday, December 14, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Z** Long questions:
- 1. Discuss the pathophysiology, pathogenesis of lupus nephritis and management of resistant lupus nephritis.

(20 marks)

2. Describe Genetic diagnosis of kidney disease and its use in chronic kidney disease of unknown etiology

(20 marks)

- 3. Write short notes on:
- 3A. Novel desensitization therapies in kidney transplant.
- 3B. Bioengineering kidneys.
- 3C. Nonpharmacological management of hypertension.
- 3D. Immune tolerance.
- 3E. Biomarkers of acute kidney injury.
- 3F. Non glucose based peritoneal dialysis solutions.

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

