Reg. No.	Reg. No.
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SUBJECT: PAPER I: BASIC SCIENCE

Tuesday, July 09, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long questions:
- 1. Describe determinants of glomerular filtration rate and methods of measuring and estimating GFR.

(20 marks)

2. Describe mechanisms and pathogenesis of immunologically mediated renal injury.

(20 marks)

- 3. Write short notes on:
- 3A. Methods of estimating proteinuria
- 3B. Hyporeninemic hypoaldosteronism
- 3C. Costimulatory pathway and its relevance for kidney transplant
- 3D. Chloride resistant metabolic alkalosis
- 3E. Uric acid handling by kidney
- 3F. Nephron endowment



SUBJECT: PAPER II: CLINICAL NEPHROLOGY

Wednesday, July 10, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long questions:
- 1. Discuss pathogenesis Etiology and medical treatment of nephrolithiasis.

(20 marks)

2. Discuss pathophysiology, Pathogenesis, clinical manifestations of cardiovascular disease and its management in chronic kidney disease.

(20 marks)

- 3. Write short notes on:
- 3A. Sickle cell Nephropathy
- 3B. Endocrine manifestations of chronic kidney disease
- 3C. Assessment of hematuria
- 3D. Steroid sparing treatment in minimal change disease
- 3E. Etiology and treatment of rapidly progressive glomerulonephritis
- 3F. AL Amyloidosis

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SUBJECT: PAPER III: RENAL REPLACEMENT THERAPY

Thursday, July 11, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long question:
- 1. Discuss the management of a patient of renal transplant in the first postoperative week.

(20 marks)

2. Discuss the physiology of peritoneal dialysis, assessment of adequacy and a typical prescription for a patient with diabetic nephropathy and chronic kidney disease stage 5.

(20 marks)

- 3. Short Notes:
- 3A. Acquired cystic disease in kidney
- 3B. Dialysis disequilibrium syndrome
- 3C. Intradialytic Hypertension
- 3D. Belatacept
- 3E. Anti-proliferative agents
- 3F. Hemodialysis Access Recirculation

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SUBJECT: PAPER IV: RECENT ADVANCES

Friday, July 12, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Z Long Questions:
- 1. Discuss tolerance and strategies to achieve the same in a kidney transplant recipient.

(20 marks)

2. Discuss role of environmental pollution in kidney disease and understanding of pathogenesis of the same.

(20 marks)

- 3. Write short notes on:
- 3A. Voclosporin
- 3B. Dysbiosis in chronic kidney disease
- 3C. Wearable artificial kidney
- 3D. Current concepts of dry weight assessment in dialysis patients
- 3E. Potassium Binders
- 3F. Kidney paired donation (KPD)