

POST-DOCTORAL DEGREE EXAMINATION – JANUARY 2024

D.M. NEPHROLOGY

Time: 3 Hours

Max. Marks: 100

PAPER – I

Basic Medical sciences pertaining to Nephrology

Q.P. Code: 1537

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. Discuss in detail regarding counter current multiplier system.
2. Name biomarkers and their role in diagnosis of acute kidney injury & elaborate about kidney injury molecule (KIM).
3. Role of Renin Angiotensin, Aldosterone system in control of blood pressure & fluid haemostasis.
4. Write about pathogenesis of diabetic kidney disease.
5. What are the changes in renal physiology in normal pregnancy & its clinical relevance?
6. Discuss about immunological aspects of development of membranous nephropathy.
7. What is C4D and its staining significance in transplant biopsy?
8. Define Asymptomatic bacteriuria & its treatment in different clinical scenario.
9. How to evaluate a case of Hypophosphatemia?
10. How do you perform voiding cystourethrogram & its clinical utility?

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PAPER – II

Q.P. Code: 1538

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Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. Management of recurrent urinary tract infections in female.
2. Pathogenesis and management of chronic interstitial nephritis.
3. Role of FGF 23& Klotho in metabolic bone disease .
4. Dense deposit disease .
5. C3 glomerulopathy.
6. Genetics and evaluation of Congenital nephrotic syndrome.
7. Monoclonal gammopathy of renal significance.
8. Causes, prevention and treatment of Contrast nephropathy.
9. Evaluation and medical management of nephrolithiasis.
10. Bleeding disorders in chronic kidney disease.

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PAPER – III

Q.P. Code: 1539

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. New Onset Diabetes In Renal Transplantation.
2. Discuss about Preemptive transplantation.
3. Adequacy in CAPD.
4. Diagnosis and management of antibody mediated rejection.
5. Diagnosis and management of post-transplant lymphoproliferative disorder .
6. Nutritional assessment in dialysis patient.
7. Recurrent glomerulonephritis in renal transplantation.
8. Indications and complications of CRRT.
9. Optimisation of deceased donor .
10. Discuss about management of Post renal transplant CMV infection.

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PAPER – IV

Q.P. Code: 1540

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. Steroid sparing regimens in renal transplantation.
2. SGLT2 inhibitors in kidney diseases.
3. Ig G4 related renal disease.
4. Newer peritoneal dialysis fluids.
5. Management of atypical HUS.
6. Meso american nephropathy.
7. Calcimimetics.
8. Modified PET test.
9. Discuss about future treatment for CKD stage V.
10. Paired kidney donation.
