

**D.M. – NEPHROLOGY**

**Paper II – CLINICAL NEPHROLOGY, DIALYSIS, TRANSPLANTATION**

*Q.P. Code: 161202*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe Renal Pathology and functional abnormalities in sickle cell disease clinical syndrome associated. Impact of sickle cell disease and Renal Transplantation.
2. Describe in detail water treatment devices and processes for in-center Hemodialysis? What are the procedures for obtaining water samples? How will you monitor quality of water treatment?

**II. Write notes on:**

**(10 x 7 = 70)**

1. Copper sulphate poisoning and Acute Kidney injury Mechanism, modes of prevention and treatment prognosis.
2. Discuss changes in kidney in pregnancy. Write notes on renal disorders in pregnancy.
3. Describe the complex Rheology and pathogenesis in Malarial Acute Renal failure.
4. Describe the Renal syndromes peculiar in Tropical Countries. Discuss on Leptospirosis AKI in detail.
5. Discuss in detail Cardiac arrhythmias in hemodialysis patients. Monitoring and preventive strategies.
6. Describe the Pathology associated in the TTP, HUS. Discuss the Pathogenesis associated with endothelial damage.
7. Describe the fluid and electrolytes abnormalities complicating Diabetes Mellitus. Discuss  $K^+$  hemostasis and its management in DKA.
8. Genetic and Enzyme defect in Primary Oxalosis. Clinical features and Treatment options.
9. Renal complications of Hereditary Polycystic Kidney disease and its treatment.
10. Lithium Toxicity, Clinical Features and its Management.

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