

D.M. – NEPHROLOGY

Paper I – NEPHROLOGY – BASIC SCIENCES

Q.P. Code: 161201

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What are the characteristics of primary Acid-Base disorder and its Renal compensation? Discuss in detail causes and treatment of saline-responsive and Saline Resistant Metabolic alkalosis.
2. Renin-Angiotensin axis and its role in Renovascular Hypertension. How will you investigate and manage Renovascular Hypertension?

II. Write notes on:

(10 x 7 = 70)

1. What are the limitations of creatinine clearance and plasma creatinine in estimating GFR?
2. Discuss the various causes of Nephrogenic DI according to probable mechanisms of action of ADH.
3. Fluid and electrolyte disturbance in diabetic ketoacidosis.
4. What are the clinical applications of urine chemistries? How estimation of urine – Na excretion is relevant to various clinical situations?
5. What are prostaglandins and its renal action? Discuss NSAID induced hemodynamic mediated AKI and clinical conditions predisposing to it.
6. Erythropoetin and its physiological role in maintaining Hemoglobin. Various guidelines for Epo-usage for maintaining Hb in CKD patients.
7. What are the causes of Hypomagnesemia? Treatment option for Hypo magnesemia, What are the precautions you will take and monitor Mg replacement?
8. Pathogenesis of preeclampsia and new biomarkers.
9. Nephrotoxic anti malignancy drugs – Discuss.
10. Renal diseases presenting as RPRF. Discuss any one in detail.
