[LN 151] OCTOBER 2018 **Sub. Code: 2046**

M.D. DEGREE EXAMINATION

BRANCH XIII – BIOCHEMISTRY

PAPER IV – CLINICAL BIOCHEMISTRY, HUMAN NUTRITION, ENDOCRINOLOGY, IMMUNOLOGY AND RECENT ADVANCES IN BIOCHEMISTRY

Q.P. Code: 202046

Time: Three Hours **Maximum: 100 Marks**

I. Essay Questions: **(2 x 15 = 30)**

1. Write in detail the Biochemistry, mechanism of actions, function and clinical significance of Anti-Diuretic Hormone. Add a note on laboratory evaluation of Diabetes Insipidus.

2. Write in detail the synthesis, secretion, mechanism of action and biological functions of Parathyroid Hormones. Add a note on its measurement.

II. Short notes: **(10 x 5 = 50)**

1. Diabetic Keto Acidosis.
2. Metabolic syndrome.
3. Proteinuria.
4. Exocrine pancreatic functions tests.
5. Hypoglycemia.
6. Bio- markers of Acute Kidney Injury.
7. Thyroid Hormone Resistance.
8. Pheochromocytoma.
9. Laboratory tests for Growth Hormone Deficiency.
10. Protein Energy Malnutrition.

III. Reasoning Out: **(4 x 5 = 20)**

1. Prothrombin time is interpreted as INR.
2. Renal tubular acidosis is associated with Normal anion gap Metabolic Acidosis.
3. Prion disease is protein conformation disease.
4. NF-kB pathway is regulated by Glucocorticoids.

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