[LD 461] **AUGUST 2013** **Sub. Code: 1461**

D.M. – ENDOCRINOLOGY

Paper I – BASIC SCIENCES OF ENDOCRINOLOGY

Q. P. Code: 161461

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

Answer ALL questions in the same order.

I. Elaborate on: **(2 x 15 = 30)**

1. G Protein – coupled receptors and their role in disease pathogenesis.
2. Describe the synthesis and the factors governing the secretion of Arginine Vasopressin (AVP).

II. Write Notes on: **(10 x 7 = 70)**

1. Aberrant ACTH receptors.
2. The role of transcription factors in the development of the pancreas.
3. The role of Parathyroid related peptide (PTHrP) in health and disease.
4. Describe the anatomy of the Hypothalamus.
5. Somatostatin receptors.
6. Inhibins and Activins.
7. The mechanism of insulin resistance.
8. Ghrelin and Growth Hormone secretagogues (GHS).
9. Genetic syndromes involving pituitary tumors.
10. Evaluation of a patient with hypocalcaemia.

****

[LH 461] **AUGUST 2015** **Sub. Code: 1461**

D.M. – ENDOCRINOLOGY

PAPER I – BASIC SCIENCES OF ENDOCRINOLOGY

Q.P. Code : 161461

Time : Three Hours **Maximum : 100 marks**

Answer ALL questions

I. Elaborate on: **(2 x 15 = 30)**

1. Describe in detail about the terminal metabolism and action of cortisol.
2. Biosynthetic pathway and Metabolism of catecholamines.

II. Write notes on : **(10 x 7 = 70)**

1. Regulation of Expression of genes encoding polypeptide hormones.
2. Ligand dependent gene activation.
3. Brown adipose tissue and Biege adipose tissue.
4. Mechanisms in thyroid dyshormono genesis.
5. Dominant negative inhibition.
6. Diencephalic syndrome.
7. Gene mutations for Beta cell function and diabetes.
8. Genetics of turner's syndrome.
9. SOX – gene regulation of gonadal phenotype.
10. Phosphate metabolism.

****