

**D.M. – ENDOCRINOLOGY**

**Paper I – BASIC SCIENCES OF ENDOCRINOLOGY**

*Q.P. Code: 161461*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Nuclear receptor signalling mechanisms.
2. Biosynthetic pathway and metabolism of catecholamines.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Neuroendocrine regulation of ACTH in health and disease.
2. Antibody based assays.
3. Placental hormones.
4. Radioisotopes in thyroid disorders.
5. Thyroglobulin in health and disease.
6. IGF-Binding proteins.
7. Biochemical markers of bone turnover.
8. Genetics of male patient with congenital hypogonadotropic hypogonadism.
9. Calcium sensing receptors (CasR): Role in calcium homeostasis and pathological states.
10. Embryology of thyroid with a note on lingual thyroid.

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