

(LJ 064)

AUGUST 2016

Sub. Code:1901

**M.Ch. – ENDOCRINE SURGERY**

**Paper I – BASIC SCIENCES AS APPLIED TO ENDOCRINE SURGERY**

*Q.P.Code: 181901*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the functional morphology of the adrenal cortex and highlight the physiological effects of corticosteroids synthesised in the adrenal gland.
2. Describe the islet cell anatomy and briefly highlight the hormones secreted by the beta cells.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Serum Thyroglobulin.
2. External branch of superior laryngeal nerve.
3. Urinary iodine estimation.
4. Molecular carcinogenesis of radiation induced thyroid cancer.
5. BRAF.
6. miRNAs in thyroid cancer.
7. Adrenal venous drainage and its surgical implications.
8. Biosynthesis of catecholamines.
9. Glucagon.
10. Biochemical diagnosis of Insulinoma.

\*\*\*\*\*