

**M.D. DEGREE EXAMINATION**

**BRANCH V – PHYSIOLOGY**

**PAPER IV – HISTORY OF MEDICINE, RECENT ADVANCES IN  
CLINICAL PHYSIOLOGY, ENDOCRINOLOGY AND  
REPRODUCTIVE SYSTEMS**

*Q.P. Code :202021*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Discuss in detail of hormonal regulation of blood glucose level. Add a note on effects of hyperglycemia.
2. Discuss the dynamics of ovarian function. Add a note on pregnancy tests.

**II. Short notes:**

**(10 x 5 = 50)**

1. Pineal gland.
2. Circadian rhythm.
3. J.Paintal.
4. Claud Bernard.
5. Extra corporeal membrane oxygenation (ECMO).
6. Stem cell therapy.
7. Formation and function of corpus luteum.
8. Neuroendocrine reflexes.
9. Pathophysiology of ageing.
10. Heat shock proteins.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Oral pills- hormonal suppression of fertility.
2. Hypocalcaemia results in tetany. Explain.
3. Gonadal sex of a fetus is determined by the Y-chromosome. Explain.
4. The cause for exophthalmos in Grave's disease.

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