

**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. a) Describe the main calcium pools in the body.  
b) Explain how plasma calcium Concentration is controlled?  
c) Describe the consequences of abnormal calcium control.
2. a) Describe the stages of labour.  
b) Explain the mechanism responsible for Parturition.  
c) Describe the causes for infertility.

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

1. Regulation of glucocorticoid secretion.
2. Graves disease.
3. Regulation of prolactin secretion.
4. Sports anaemia.
5. Insulin glucagon molar ratio.
6. Addisonian crisis.
7. Regulation of Growth hormone secretion.
8. Sex chromatin.
9. FG.Banting and Charles H Best's contribution to medicine.
10. Wolff-Chaikoff effect.

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

1. Growth hormone has 'Acute Insulin' metabolic effects.
2. Sulfonyl ureas have a therapeutic role only in type2 Diabetes.
3. Mini pills' do not effectively inhibit ovulation like combination pills.
4. Administration of Thiocyanate causes inhibition of iodide trapping Mechanism.

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