

**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:** **(2 x 10 = 20)**

1. What is Diabetes Insipidus (DI)? What are the different types of DI?
2. Write an essay on contraception in females. What is the physiological basis of lactational amenorrhea?

**II. Short Questions:** **(8 x 5 = 40)**

1. Insulin receptors.
2. Hormones involved in calcium metabolism.
3. Starling and Bayliss.
4. Recombinant DNA technology.
5. Testicular counter current mechanism.
6. Types of dwarfism.
7. Cryptorchidism.
8. Puberty.

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

1. 21 Hydroxylase deficiency causes hypovolemia.
2. Iodine deficiency causes goiter.
3. Hyperventilation aggravates carpopedal spasm.
4. Dopamine is preferred in treating cardiogenic shock.

**IV. Very Short Questions:** **(10 x 2 = 20)**

1. Conn's syndrome.
2. Radioimmunoassay.
3. Action of adrenal androgens.
4. Role of oxytocin in males.
5. C peptide.
6. Functions of acrosomes.
7. Menopause.
8. Coronary angioplasty.
9. Hashimoto's thyroiditis.
10. Barr body.

\*\*\*\*\*