

**H-56080**

Seat No. \_\_\_\_\_

**M. Sc. (Part - II) Examination**

April / May – 2003

**Biomedical Technology : Paper - V**

***(Clinical Endocrinology, Semenology & Radiation Diagnostics)***

Time : 3 Hours]

[Total Marks : 75

**NB: All questions carry equal marks.  
All questions are compulsory.  
Illustrate your answers with neat diagrams wherever necessary**

1. Describe: a). Regulation of Hormones by metabolites  
b). Sutherland's Cascade phenomenon

**OR**

1. Describe: a). Protein hormone receptor recycling and its metabolism  
b). Gene regulation by steroid hormones
2. Write an account on: a). Diabetes mellitus  
b). Pituitary related disorders

**OR**

2. Write an account on: a). ADH and osmoregulation  
b). Amenorrhoea
3. Write notes on: a). Principles of ELISA  
b). *In vitro* fertilization

**OR**

3. Write notes on: a). IRMA  
b). Surgical techniques in male contraception
4. Write an account on: a). Role of SRY in sex determination  
b). Diagnostic value of Semen

**OR**

4. Write an account on: a). Sperm Acrosome and its reaction  
b). Hormonal pills in the female
5. Write short notes on **Any three** of the following:
  - a). G - proteins
  - b). Parameters for validation of an assay
  - c). Sperm function tests
  - d). Gynecomastia and cryptorchidism
  - e). Pineal gland
  - f). Climacteric phase in women

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