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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