N-55035

Seat No._____

M. Sc. (Part-I) Examination

April / May – 2003

Zoology : Paper-III

(Biochemistry & Physiology)

Time : **3** Hours] [Total Marks : **100**

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

1. Write an account on: a). C – 21 Steroidogenesis
   b). Fatty acids

OR

1. Write an account on: a). Types of RNA
   b). Levels of organization in protein structure

2. Describe: a). Michaelis - Menten equation
   b). Electron Transport System

OR

2. Describe: a). Principles and types of Chromatography
   b). HMP shunt

3. Write notes on: a). Ultrastructure of Skeletal muscle and physiology of muscle contraction
   b). CSF and lymph

OR

3. Write notes on: a). Regulation of Gastric secretion
   b). Transport of respiratory gases

4. Describe: a). Propagation and conduction of a nerve impulse
   b). Glomerular ultrafiltration

OR

4. Describe: a). Mechanisms of coagulation of blood
   b). Primary lymphoid organs

5. Write short notes on **any three** of the following:

   a). Phospholipids
   b). Redox potential
   c). Difference between Spectrophotometry and Colorimetry
   d). Histology of Thyroid gland
   e). Neuromuscular junctions
   f). Cardiac cycle