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

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