

GSM/D-21**939****MAMMALIAN PHYSIOLOGY-I****Paper-Zoology-II**

Time Allowed : 3 Hours]

[Maximum Marks : 40

Note : Attempt **five** questions in all, selecting **one** question from each Unit.
Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Write short notes on the following : 14
- (a) Aldose
 - (b) Pyranose.
 - (c) Palmitoleic acid.
 - (d) Carnauba wax.
 - (e) Tonicity
 - (f) Phylloquinone.
 - (g) Phagosome.
 - (h) Tetanus.
 - (i) Pseudogout.
 - (j) Sarcoplasm.

UNIT-I

2. (a) Describe the structure and function of Testosterone. 3½
- (b) What are Prostaglandins ? 3
3. Write short notes on the following :
- (a) Mutarotation. 3
 - (b) Optical Isomerism. 3½

4. Write short notes on the following :
- (a) Non-competitive inhibition. 3½
 - (b) Michaelis-Menton hypothesis. 3
5. (a) Differentiate between Active and Passive transport. 5
- (b) What is facilitated diffusion ? 1½

UNIT-II

6. (a) Write down the Biological function of Bile. 2
- (b) Explain the process of adsorption of Fats in Intestine. 4½
7. (a) Explain the digestion of Carbohydrates in the Alimentary canal of man. 5
- (b) Differentiate between Autotrophic and Heterotrophic nutrition. 1½
8. Explain various Biochemical changes takes place in the Muscle contraction. 6½
9. Explain the cause and symptoms of following Bone disorders :
- (a) Osteoporosis. 2½
 - (b) Osteonecrosis. 2
 - (c) Achondroplasia. 2