

**P-209**

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## **MSCZO-503**

### **Animal Physiology & Endocrinology**

M.Sc. Zoology (MSCZO)

1st Semester Examination, 2023 (June)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Discuss the structure of hemoglobin. Explain oxygen transport by hemoglobin.

2. Write an essay on role of digestive enzymes in food digestion.
3. Describe the renin angiotensin aldosterone system (RAAS) for kidney regulation.
4. Describe the structure and mechanism of vision in human eye.
5. Describe the ultrastructure of skeletal muscle in detail.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Describe the function of placenta.
2. Describe role of estrogen and progesterone on secondary sexual characteristics of female.
3. Give a brief note on sensory, motor and mixed neuron.
4. What is saltatory conduction?

5. Describe the structure of a typical neuron.
  6. Describe various types of neuron.
  7. Write a brief note on cardiac muscles.
  8. Write a short note on pituitary gland.
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