

**K-527**

Total Pages : 3

Roll No. ....

**MZO-506**

**Animal Physiology**

M.Sc. Zoology (MSCZO)

2nd Semester Examination, 2023 (Dec.)

**Time : 2 Hours]**

**[Max. Marks : 35**

**Note :** This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

**SECTION–A**

**(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. Explain the Cold Death, Cold Resistance and Heat Death.
2. Explain the mechanism of survival in poikilotherms and homeotherms.
3. Short not any *two* :
  - (a) Endothermy in insects.
  - (b) Thermogenesis.
  - (c) Gills.
  - (d) Oxygen Toxicity.
  - (e) Blood Coagulation.
4. Describe the Ammonia Toxicity and Urea cycle.
5. Explain the Bioluminescence-Luminescent organisms and neural control.

### **SECTION-B**

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

**Note :** Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Explain the steroid hormones.

2. Describe the Endplate potential (EPP).
  3. Explain the ACTH and STH, with Example.
  4. Explain the Thyroid hormones.
  5. Describe the muscle contraction.
  6. Describe the mechanisms of osmotic regulation.
  7. Explain the olfactory receptor cells.
  8. Describe the Helper T cells in overall regulation of Immunity.
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