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Roll No.

MZO-506

Animal Physiology

M.Sc. Zoology (MSCZO)

2nd Semester Examination, 2023 (June)

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.

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 movement of water and Solutes across Cell membrane.

2. Describe the mechanism of survival in poikilotherms and homeotherms.
3. Short note any *two* :
 - (a) Freezing tolerance.
 - (b) Thermogenesis.
 - (c) Air Bladder.
 - (d) Oxygen Toxicity.
 - (e) Ammonia Toxicity.
4. Explain the antibodies structure of antibodies and immune responses in animals.
5. Explain the description of important neurotransmitter of Actylecholine and Glutamate .

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 taste receptors.
2. Describe the general mechanism of muscle contraction.

3. Explain the general mechanism and thyroid hormone with Example.
 4. Explain the sex hormones.
 5. Describe the photoreception.
 6. Describe the mechanisms of osmotic regulation.
 7. Explain the cold death and cold resistance.
 8. Describe the Hibernation and Aestivation.
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