

S-1072

Total Pages : 3

Roll No.

ZO-503

Animal Physiology & Physiological Chemistry

M.Sc. Zoology (MSCZO)

1st Year Examination, 2022 (Dec.)

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. Describe the respiratory mechanisms in different animals.
2. What is absorption? Explain the mechanisms involved in it.

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[P.T.O.]

3. Discuss the concept of immunity and immune response in animals.
4. What are enzymes? Describes the general properties of enzymes.
5. Describe proteins with suitable examples.

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. Write short notes on the following :
 - (a) Hibernation.
 - (b) Cold resistance and cold death.
2. Write an account on origin and propagation of nerve impulse.
3. Explain fat soluble vitamins with example.
4. Write short notes on :
 - (a) Antigen.
 - (b) Lymphocytes.

5. Define the polysaccharides and describe the structure and functions.
 6. Describe the synthesis of various steroid hormones.
 7. Give an account on molecular mechanism of muscle contraction.
 8. What is thyroxin? Explain the source of its synthesis and its metabolic action.
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