

S-186

Total Pages : 3

Roll No.

MSCZO-601

Vertebrates

M.Sc. Zoology (MSCZO)

3rd Semester 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. Discuss in detail evolution and adaptive radiation of reptiles.

2. Describe various affinities of Cephalochordata with Non-chordata, Hemichordata and Urochordata.
3. Explain general characters of bony fishes (Osteichthyes) along with their classification up to order level.
4. Why the birds are called 'Glorified Reptiles'? Also explain the flight mechanism of birds.
5. Elaborate the significance of *Archaeopteryx* along with their reptilian and avian characters.

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 neoteny with special reference to Axolotl larva.
2. Explain general characters of cyclostomata.
3. Explain biological significance of ostracoderms.
4. Describe poison apparatus and biting mechanism of snake with the help of suitable diagrams.

5. Write a note on distribution and affinities of metatheria.
 6. Explain origin and ancestry of mammals.
 7. Discuss development of human tooth and dental formula with suitable diagram.
 8. Distinguish between poisonous and non-poisonous snakes.
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