

B.Sc. (Honours) Examination, 2019
Semester–IV
Zoology
Course – CCT-VIII
(Biology of Vertebrates: Amphibia to Reptilia)

(For Back Candidates)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer *any five* questions.

1. Write down the distinctive characters of Amphibia. Classify living Amphibia up to order with characters and examples. 2+6=8
 2. Distinguish between neoteny and paedogenesis. Discuss the role of different extrinsic and intrinsic factors that influence neoteny. 1+7=8
 3. Give an account of the parental care in *Physalaemus pustulosus*, the Permian frog, *Calostethus inguinalis* and *Gastrothecacarnsupiata* with the help of suitable diagrams. Add a note on 'pseudoplacentation'. 6+2=8
 4. What are the different types of skulls found in reptiles? Write down the classification scheme of Class – Reptilia according to Young, 1981 with examples. 3+5=8
 5. Describe the anatomical peculiarities of *Sphenodon*. Discuss its affinities with other reptilian groups. 4+4=8
 6. Describe the types of fangs in snakes with suitable diagram and examples. Add a note on the poison gland in snakes. 6+2=8
 7. Write short notes on the following (*any two*): 4×2=8
 - (a) Metamorphic climax.
 - (b) Third eye in *Sphenodon*.
 - (c) Salient features of Crocodilia.
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