

**Q.P. Code : 11333**

**Third Semester B.Sc. Degree Examination,  
November/December 2019**

*(CBCS – 2019-20 and onwards)*

**Zoology**

**Paper III – CHORDATA**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to Candidates :*

- 1) Draw neat labeled diagrams wherever necessary*
- 2) Answers should be completely in English.*

**PART – A**

- I. Answer the following in **1** word or **1** sentence each : **(10 × 1 = 10)**
1. Where is notochord present in Chordata?
  2. Name the larva of petromyzon.
  3. Which vertebra of frog is amphicoelous?
  4. What is a monocondylar skull?
  5. Name the fish-like extinct reptile.
  6. Mention the fore-limb modification of Aves.
  7. Give an example for ratitae.
  8. Name the partition present between the thorax and abdomen in mammals.
  9. What is rutheria?
  10. Mention the indogenous breed of Poultry developed in Bengaluru.

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**PART - B**

II. Answer any **FIVE** of the following : (5 × 3 = 15)

11. Draw a neat labeled diagram of externals of Herdmania.
12. Differentiate between catadromous and anadromous migration with suitable examples.
13. Name the orders of class amphibia with suitable examples.
14. Draw a neat labeled diagram of the Diapsid skull.
15. Mention the advantages of migration with reference to birds.
16. Write a note on the ventricles of Rat brain.
17. Mention any three diseases in Poultry and their causative agents.

**PART - C**

III. Answer any **FIVE** of the following : (5 × 5 = 25)

18. Explain the feeding mechanism in amphioxus.
19. Answer the following :
  - (a) Give two salient features of agnatha with an example.
  - (b) Mention two distinguishing features of Chondrichthyes with an example.
20. Give an account on the origin of amphibia.
21. Give the outline classification of class Reptilia.
22. Mention any five morphological adaptations of Aves to aerial life.
23. Give five salient characters of class mammalian.
24. Write a note on composite fish farming.

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PART - D

IV. Answer any **TWO** of the following :

**(2 × 10 = 20)**

25. Write short notes on :

- (a) Retrogressive metamorphosis with reference to tadpole of *Herdmania*
- (b) Pelvic girdle of frog.

26. Add a note on the following :

- (a) Interesting features of *Sphenodon*
- (b) Avian characters of *Archeopteryx*.

27. Explain the female Urinogenital system of rat with neat labeled diagram.

28. Explain artificial insemination and MOET.