

Roll No. : .....

Total No. of Questions : 11 ]

[ Total No. of Printed Pages : 3

# **BPF-2187**

**M.Sc. (Final) Examination, 2022**

**ZOOLOGY**

Paper - V

**(Chordata and Developmental Biology of Chordates)**

*Time : 3 Hours ]*

*[ Maximum Marks : 75*

**Section-A**

**(Marks : 2 × 10 = 20)**

**Note :-** Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

**Section-B**

**(Marks : 5 × 5 = 25)**

**Note :-** Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

**Section-C**

**(Marks : 10 × 3 = 30)**

**Note :-** Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

**Section-A**

1. (i) Write the name of Petromyzon Larva.
- (ii) Write the characteristic features of Chordata.

**BR-210**

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**BPF-2187** P.T.O.

- (iii) Write the name of *three* lung fishes.
- (iv) Draw the diagram of Oikopleura.
- (v) Define Geological Time Scale.
- (vi) What is Vitellogenesis ?
- (vii) What are neural crest cells ?
- (viii) Define Competence.
- (ix) What is difference between acraniata and craniata ?
- (x) Write the *four* examples of Squamata.

**Section-B**

2. Write a note on Metatherians.

*Or*

Discuss interrelationships of hemichordata and cephalochordata.

3. Classify reptilia upto orders with suitable examples.

*Or*

Describe life cycle of Doliolum.

4. Describe various functions of Placenta.

*Or*

Explain Epigenesis.

5. Write short note on flight adaptations.

*Or*

Describe the patterns of Cleavage.

6. Write the structural and physiological adaptations of cleidoic egg.

*Or*

Write short note on Rhynchocephalia.

### **Section-C**

7. Explain birds are glorified reptiles.
8. Write essay on adaptive radiations.
9. Describe genetic regulation of early embryonic development (Drosophila Development as a Model).
10. Write essay on Regeneration.
11. Describe chemistry and mechanism of action inducing substances.