

(i) Printed Pages : 3]

Roll No. ....

(ii) Questions : 9]

Sub. Code : 

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Exam. Code : 

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**B.A./B.Sc. (General) 3rd Semester  
Examination**

**1127**

**ZOOLOGY**

**(Biodiversity (Chordates) & Evolution-I)**

**Paper : I (ZOO-301)**

**Time : 3 Hours]**

**[Max. Marks : 36**

**Note :-** Attempt total *five* questions, selecting *one* question from each Unit. Question No. 1 is compulsory.

1. Describe the following :

(a) Analogous organs

(b) Weismann's theory

(c) Classify *Doliolum*

(d) Ammocoetes larva

(e) Migration in mammals

- (f) Flying fish
- (g) Skin in frog
- (h) Progressive metamorphosis

8×1=8

### Unit-I

- 2. Describe merits and demerits of theory of natural selection. 7
- 3. (a) Describe simulation experiment about origin of life. 4
- (b) Describe evidences of organic evolution from embryology. 3

### Unit-II

- 4. Write ecological notes on *Molgula* and *Oikopleura*. 7
- 5. (a) Draw labelled sketch of pharynx of *Herdmania*. 4
- (b) Describe digestive system of *Amphioxus*. 3

### Unit-III

- 6. Write ecological notes on lung fish, *Hippocampus* and *Pristis*. 7

7. (a) Write note on affinities of cyclostomes. 4  
(b) Define external characters of *Petromyzon*. 3

#### Unit-IV

8. Write brief ecological notes on *Amphiuma*, *Necturus* and *Hyla*. 7  
9. (a) Describe female reproductive system of frog. 4  
(b) Describe process of gastrulation in frog. 3