

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9 Sub. Code :

1	1	7	5	9
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Exam. Code :

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Bachelor of Science (FYUP) 2nd Semester
(2055)

ZOOLOGY

Paper : Diversity of Chordates

Time Allowed : Three Hours]

[Maximum Marks : 60

Note :— (1) Attempt **FIVE** questions in all, selecting **ONE** question from each Unit. Question No. 1 is compulsory.

(2) Draw relevant diagrams wherever necessary.

1. Write short notes on the following :

- (1) Diagnostic features of Chordates.
- (2) Neoteny.
- (3) Osmoregulation in freshwater fishes.
- (4) Acrodont teeth.
- (5) Retrogressive metamorphosis.
- (6) Mermaid purse.
- (7) Significance of adaptive radiation in mammals.
- (8) Name three poisonous snakes.

$8 \times 1\frac{1}{2} = 12$

UNIT—I

2. (a) Write ecological note on Balanoglossus and Amphioxus. 8
(b) Discuss the general characters of Cephalochordata. 4
3. Describe metamorphosis in Herdmania and write a note on larva of herdmania. 12

UNIT—II

4. Explain in detail about migration in fishes. 12
5. Write a note on the following :—
 - (a) Parental care in amphibians.
 - (b) Fish scales. 12

UNIT—III

6. (a) Write ecological note on chameleon and eudynamis. 6
(b) Write a note on poisonous apparatus of snake. 6
7. (a) Archaeopteryx as connecting link. Justify this statement. 6
(b) Discuss the flight adaptation of birds. 6

UNIT—IV

8. Discuss the adaptative radiation of mammals in reference to locomotory appendages. 12
9. (a) Discuss any two exoskeleton derivatives of mammals. 6
(b) Discuss the classification of teeth on the basis of attachment and replacement in mammals. 6