

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

1	1	7	5	5
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Exam. Code :

5	0	1	2
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Bachelor of Science (FYUP) 2nd Semester

(2056)

ZOOLOGY

Paper : Diversity of Chordates

(Common with B.Sc. Bio-Technology 2nd Sem. FYUP)

Time Allowed : Three Hours]

[Maximum Marks : 67

Note :— Attempt **five** questions in all; including Question no. 1 which is compulsory and selecting **one** question from each unit.

I. Write short notes on the following:

- (a) Myotomes
- (b) Paedomorphosis
- (c) Euryhaline
- (d) Preen glands
- (e) Patagium
- (f) Aestivation
- (g) Opisthoglyphous

- (h) Elver
- (i) Endostyle
- (j) Dental formula. 10×1.5

UNIT-I

- II. (a) Discuss the main characteristics features of phylum Chordata.
- (b) Write eco-morphological note on *Balanoglossus* and *Amphioxus*. 6+7
- III. Explain in detail about structure and metamorphosis of Ascidian larva. 13

UNIT-II

- IV. What is Parental care? Give a detailed account of parental care in amphibia. 13
- V. Explain the following:
 - (a) Osmoregulation in fishes
 - (b) Types of fish scales. 7+6

UNIT-III

- VI. Write in detail about migration in birds. 13
- VII. (a) Explain the reptilian and avian characters of Archaeopteryx.
- (b) Give an account of distinction between poisonous and non-poisonous snakes. 7+6

UNIT-IV

VIII. Write short notes on the following:

(a) Eco-morphological note on *Macropus* and *Pteropus*

(b) Characteristics of class mammalia. 7+6

IX. Describe various exoskeleton derivatives of Mammals. 13