

Roll No.

(07/21-II)

13691

M. Sc. EXAMINATION

(For Batch 2017 & Onwards)

(Second Semester)

ZOOLOGY

ZOO201

Biology of Vertebrates

Time : Three Hours

Maximum Marks : 70

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. Select *one* question from each Unit (I-IV).

1. Describe briefly the following :

- (a) Classes of vertebrates
- (b) Coelem in hemichordates
- (c) Characters of Bony Fishes
- (d) Different types of migration in birds
- (e) Respiratory organs in Amphibia. $2 \times 5 = 10$

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P.T.O.

Unit I

2. What are Chordates ? Discuss all their general characters in full detail. 15

Or

3. Explain various theories of origin of chordates with the help of suitable examples. 15

Unit II

4. Explain in full detail, respiratory system and circulatory system in Hemichordata with the help of well labelled diagrams. 15

Or

5. Discuss in full detail salient features and classification upto class of Phylum Protochordata. 15

Unit III

6. Discuss circulatory system and reproductive system in class Amphibia with the help of diagrams. 15

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Or

7. Write notes on the following :

(a) Dipnoi

7

(b) Parental Care in Fishes.

8

Unit IV

8. Discuss the following :

(a) Migration of Birds

7

(b) Evolution of Man.

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Or

9. Discuss the following :

(a) Excretory System of Mammals.

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(b) Circulatory System of Reptilia.

8

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3

200