

ZOO 201.2

Reg. No.....

Reg. No.

CREDIT BASED SECOND SEMESTER B.Sc. DEGREE EXAMINATION APRIL 2015

ZOOLOGY

Zoomorphology - II

Duration: 3 Hours

Max Marks: 80

Note: i) Answer any TEN questions from Part A

ii) Answer SIX complete questions from Part B choosing any TWO questions from each unit

PART A

I. Answer any TEN of the following:

10×2=20

- 1) Define Telotruch. Where is it found?
- 2) What is Retrogressive Metamorphosis? Give an example.
- 3) Give any two examples for Agnatha and Gnathostomata.
- 4) What are Placoid Scales? Where is it found?
- 5) What do you mean by Amphicoelous Vertebra?

- 6) Name any two non-poisonous snakes.
- 7) Define poikilothermy with an example.
- 8) Mention any two differences between frog and toad.
- 9) What is pygostyle? Where is it found?
- 10) Write the scientific name of i) crow ii) pigeon
- 11) Explain the term diphyodont.
- 12) Give any two examples for order Rodentia.

PART-B

Answer any TWO complete questions from each unit:

UNIT-I

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|-------------|----|--|-----------|
| II. | a) | With a neat labeled diagram explain the external features of Petromyzon. | 07 |
| | b) | With diagrams write the names of different types of caudal fins in fishes. | 03 |
| III. | a) | Write the general characters of phylum Chordata. | 07 |
| | d) | Draw a neat labeled diagram of tornaria larva. | 03 |
| IV. | a) | Write any ten differences between chondrichthyes and osteichthyes. | 05 |
| | b) | Describe the external features of Herdmania. | 05 |

UNIT-II

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|-------------|----|--|-----------|
| V. | a) | Classify class Amphibia upto orders giving three distinctive characters and two examples for each. | 07 |
| | b) | With a diagram explain the diapsidan type of skull. | 03 |
| VI. | a) | Describe poison apparatus and biting mechanism of poisonous snakes. | 07 |
| | b) | Write a note on hyoid apparatus in frog. | 03 |
| VII. | a) | With the aid of a neat labeled diagram describe the external features of Hoplobatrachus Tigrinus. | 05 |
| | d) | Give a brief account of Crocodilia. | 05 |

UNIT-III

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|--------------|----|--|-----------|
| VIII. | a) | Give an account of flight adaptation in birds. | 07 |
| | d) | Write any four distinctive features of Chiroptera with two examples. | 03 |
| IX. | a) | Discuss the affinities of Prototheria. | 07 |
| | b) | Give a brief account of any three types of beaks in birds with one example for each. | 03 |
| 03 | | | |
| X. | a) | Write any six general characters of super order Palaeognathae. Give two examples. | 05 |
| | b) | Describe the female reproductive system of rat with a neat labeled diagram. | 05 |

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ZOOLOGY**ZOOMORPHOLOGY - II**

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Note: Answer any TEN Questions from Part-A

Answer SIX questions from Part-B choosing any two questions from each unit.

PART A**I. Answer any TEN of the following: 10x2=20**

1. Mention the coelomic cavities in Balanoglossus.
2. What are solenocytes? Where are they found?
3. Write any two important external features of Lamprey.
4. Write any two differences between chondrichthyes and osteichthyes.
5. What do you mean by procoelous vertebra?
6. Name any two poisonous snakes.
7. Write any two important general characters of the order chelonian.
8. What do you mean by Anura?
9. What is synsacrum?
10. Mention any two types of beaks in birds with one example for each.
11. What is Diastema? Where is it found?
12. Explain the term Blubber.

PART-B**UNIT-I**

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|------|----|--|----|
| II. | a) | Write the general characters of Cyclostomata with two examples. | 07 |
| | b) | Draw a neat labeled diagram of Herdmania. | 03 |
| III. | a) | Write explanatory notes on accessory respiratory organs in fish. | 07 |
| | b) | Write any four general characters of subphylum Hemichordata with any two examples. | 03 |
| IV. | a) | Write any eight general characters of subphylum Cephalochordata with two examples. | 05 |
| | b) | Describe the external features of Rohu. | 05 |

UNIT-II

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|----|----|---|----|
| V. | a) | With a neat labeled diagram describe the dorsal surface of the skull of Frog. | 07 |
| | b) | Give a brief account of Crocodilia. | 03 |

- VI. a) Write the General characteristics of the class Reptilia with any two examples. 07
b) Enumerate any three differences between Urodeles and Apodans. 03
- VII. a) Explain the external features of Holobatrachus Tigrinus. 05
b) Give an account on first aid for snake bite. 05

UNIT-III

- VIII. a) With a neat labeled diagram describe the digestive system of Rat. 07
b) Write the common and scientific names of any three local Birds. 03
- IX. a) Write the distinctive characters of class aves with any two examples. 07
b) Explain the types of gaits found in Mammals. 03
- X. a) Enumerate any eight features of order Carnivora with two examples. 05
b) Give a brief account of flight adaptation in birds. 05
