

otal No. of Printed Pages—4

3 SEM TDC ZOO M 1 (N/O)

2018

(November)

ZOOLOGY

(Major)

Course : 301

*The figures in the margin indicate full marks
for the questions*

(New Course)

(Chordate Diversity and Comparative Anatomy)

Full Marks : 48

Pass Marks : 14

Time : 2 hours

1. Fill in the blanks : 1×5=5
 - (a) Balanoglossus belongs to the class ____.
 - (b) Lungfishes are grouped under the order ____.
 - (c) Jacobson's organs are present in the species belong to the class ____.
 - (d) Egg-laying mammals are under sub-class ____.
 - (e) Mammary glands are modified ____ glands.
2. Write short notes on any two of the following : 4½×2=9
 - (a) Eco-location in bats

- (b) Dentition in mammals
- (c) Flight adaptation in birds
- (d) Perching mechanism in birds

3. Write the general characters of Cephalochordata and its affinity to invertebrates. $5+3=8$

Or

Discuss the significance of larval forms of protochordates in the phylogenetic studies of chordates.

4. What are the causes of fish migration? Briefly describe the types of fish migration. What is the significance of fish migration?

$2+5+1=8$

Or

Why are accessory respiratory organs not found in all types of fishes? Write about the functions of swim bladder.

$2+6=8$

5. Classify the living amphibians up to order with at least two characters and an example.

Or

Discuss the anatomical peculiarities of Sphenodon and its affinities.

$5+4=9$

6. Give a comparative account of the pelvic girdles of reptiles and birds.

Or

Compare the integument of fish and reptiles.