

Total No. of printed pages = 4

3 (Sem 2) ZOO M1

2015

ZOOLOGY

(Major)

Theory Paper : M-2.1

(Animal Diversity-II)

Full Marks – 60

Time – 2½ hours

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

1. Answer the following questions : 1×7=7

- (a) Besides 'Acron Worm', what is the other name of Balanoglossus ?
- (b) Which cyclostome does not have larval form ?
- (c) Name one fish which is a living fossil.
- (d) Give an example of tongueless amphibian.

[Turn over

- (e) Mention the order that includes horned toad.
- (f) Which pectoral muscle acts as the depressor muscle in flight ?
- (g) Which mammal has prehensile tongue ?

2. Answer the following questions : $2 \times 4 = 8$

- (a) Write about the chorda dorsalis. 2
- (b) Give a brief note on the wheel organ. 2
- (c) Write what you know about Parental care in amphibia. 2
- (d) What are neuromast organs ? Write their functions. $1 + 1 = 2$

3. Answer any *three* questions : $5 \times 3 = 15$

- (a) Write very briefly about the patterns of migration in fishes. 5
- (b) Write what you know about the buccopharyngeal respiration in Amphibia with neat labelled diagram. $3 + 2 = 5$
- (c) Discuss briefly the affinities of Sphenodon. 5

(d) Write the distinctive characters of super order Neognathae. 5

(e) Describe briefly the structure of a tooth of mammal with neat labelled diagram. $3 + 2 = 5$

4. (a) (i) Write about the ammocoete larva with neat labelled diagram. $4 + 2 = 6$

(ii) Distinguish between Lamprey and Hagfish. 4

Or

(b) Describe the general structure of a cephalochordate you have studied with suitable diagram. $8 + 2 = 10$

(c) What is swim bladder ? Describe the modification of swim bladder in different fish species with suitable neat diagrams. Write the function of swim bladder. $1 + 5 + 4 = 10$

Or

(d) Write the important characters of class Reptilia. Classify it upto order mentioning at least two characters each with suitable examples. $3 + 7 = 10$

- (e) Write what you know about the muscles involved in perching mechanism in birds with neat diagram. In what ways these muscles help in the mechanism of perching in birds ? 6+4=10

Or

- (f) Give an account on the general organization and affinities of Monotremata. 6+4=10