

2014

ZOOLOGY

(Major)

Paper : 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) What type of pharynx is basically found in Chordates?
- (b) Where is the tongue bar present?
- (c) Mention the mode of feeding in ammocoete larva.
- (d) Which amphibian is called 'mud eel'?
- (e) Write the name of the arboreal lizard found in India.
- (f) Name the functional ovary in birds.
- (g) What is the use of prehensile tail?

(2)

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

- (a) Describe briefly the structure of tornaria larva.
- (b) Why is Herdmania called filter feeder?
- (c) Write the significance of parental care in Amphibia.
- (d) Write a note on pecten of birds.

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

- (a) Write briefly on the body wall of Branchiostoma with a neat diagram. 5
- (b) Write what you know about the arterial system of Scoliodon. 5
- (c) Draw a labelled diagram of fully-opened biting apparatus of a poisonous snake. 5
- (d) Give an account of the various types of migration in birds. Mention the causes of migration. $3 + 2 = 5$
- (e) Write a short note on membranous labyrinth of mammals. 5

(3)

4. (a) Give an account of general structure of a Urochordate you have studied. 10

Or

- (b) Write the distinctive characteristics of Cyclostomata. Discuss their evolutionary significances. $6 + 4 = 10$
- (c) Describe the structure of the brain of Scoliodon with a labelled diagram. $8 + 2 = 10$

Or

- (d) Write the general characters of class Amphibia and classify it up to orders mentioning at least two characters each with suitable examples. $4 + 6 = 10$
- (e) What are the muscles involved in flight? Write an account of flight mechanism in birds. $5 + 5 = 10$

Or

- (f) Describe the general organisation of Metatheria. Write its affinities with Eutheria. $8 + 2 = 10$
