2017

M.Sc.

1st Semester Examination

ZOOLOGY

PAPER-200-101

Subject Code-35

Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Use separate Answer-scripts for Group-A & Group-B

Group-A

(Non-Chordates)

1. Answer any two questions of the following:

2×2

(a) Mention the characters which appeared in course of metazoan evolution.

- (b) Differentiate protostomia from deuterostomia.
- (c) Commet on Flagship Species.
- (d) Highlight the differences between Entrocoelous coelom from schizocoelous one.
- 2. Answer any two questions of the following: 4×2
 - (a) Briefly explain the 'Bennet-Clasks' Model of nematode feeding.
 - (b) Significance of cyclomorphosis in rotiferra.
 - (c) Mention the significance of foreaminiferra in ecomonitoring of marine ecosystem.
 - (d) With labelled diagram point out the structural excellence of rotiferra.
- 3. Answer any one question of the following: 1×8
 - (a) Define larva. Briefly elaborate the concept of resource utilisation in larval study. With labelled diagram differentiate protostome larva from deuterostome ones.

1+3+4

(b) Enlist different Lophophoporeate phyla and draw relationships among them. Briefly discuss the feeding mechanism of ectoprocta. 3+5

Group-B

(Chordates)

4. Answer any two questions:

 2×2

- (a) Define Echolocation.
- (b) State the function of endostyle.
- (c) State the significance of accessory respiratory organs in teleost fishes.
- (d) Why does hilsa migrate?
- 5. Write any two of the following:

 2×4

- (a) State the structures and functions of endostyle in Amphioxus.
- (b) What do you mean by osmoregulation in fish? State its significance.
- (c) Write a note on the iodine cycle in Amphioxus.
- (d) Define osmoconformer and state its significance in lower group of restebratos.

6. Write any one question:

1×8

- (a) Give an account of distribution of primates in India.
- (b) Discuss the migratory behaviour of birds.