

11.12.18 (E)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 917

I

Unique Paper Code : 32235902

Name of the Paper : Animal Diversity

Name of the Course : Zoology : G.E. for Honours

Semester : I

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt five questions in all including Q.1 which is compulsory.
3. Illustrate your answers with diagrams wherever necessary.

1. (a) Define the following term : (5×2=10)

(i) Metamerism

(ii) Undulating membrane

(iii) Zooids

P.T.O.

(iv) Stenohaline

(v) Haemocoel

(b) Differentiate : (8)

(i) Worker and Drone honey bee

(ii) Enterocoelous and Schizocoelous Coelom

(iii) Nephridia and Coelomoduct

(iv) Apoda and Urodela

(c) State whether the statements are true or false : (5)

(i) Platyhelminthes are usually found to be laterally flattened.

(ii) Gills are covered by operculum in Osteichthyes.

(iii) Cobra can make nest.

(iv) Rumen is present in Arthropods.

(v) Venus flower basket belongs to Cnidarian.

(d) Give the location and function of following : (4)

(i) Staocyst

(ii) Ospharidium

(iii) Ctenidia

(iv) Typhlosole

2. Discuss in detail with a suitable diagram, water vascular system in Asteroidea. (12)

3. Describe the life cycle of Taenia solium. Add a note on the parasitic adaptation of this animal. (9+3)

4. (i) Give a detailed account of social life in honey bee.

(ii) Give a short note on pearl formation in Mollusca. (9+3)

5. (i) Give an account of terrestrial adaptations in reptiles.

(ii) Give salient features of flight adaptations in birds. (6+6)

6. (i) Give an account of migration in Fishes.

(ii) Give an account of parental care in amphibians. (6+6)

7. Write short note on : (4×3=12)

- (i) Terrestrial adaptation in helminthes
- (ii) Protochordates
- (iii) Osmoregulation