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[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1011

D

Unique Paper Code : 2232521101

Name of the Paper : Diversity of Animals
(DSE-3)

Name of the Course : B.Sc. (P) Life Science UGCF

Semester : I

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **FOUR** questions in all.
3. Question No. 1 is compulsory.
4. Illustrate your answers with diagram wherever necessary.

1. (a) Define the following-

(5)

- (i) Schizocoelom
- (ii) Biradial symmetry
- (iii) Primary host
- (iv) Apolysis
- (v) Retrogressive Metamorphosis

(b) Give the scientific name for the following: (2)

- (i) Venus' flower basket
- (ii) Pork tape worm
- (iii) House lizard
- (iv) Lancelet

(c) Differentiate between the following (2×4=8)

- (i) Mature and gravid proglottid
- (ii) Torsion and detorsion

(iii) Anadromous and catadromous

(iv) Longitudinal and latitudinal migration

2. (a) Discuss the types of canal system in Porifera.

Add a note on the significance of canal system.

(10)

(b) Explain the ciliary mode of locomotion in Protozoa.

(5)

3. (a) Discuss the parasitic adaptations of *Taenia solium*.

(8)

(b) Explain the structure of water vascular system in echinoderms. Add a note on its function.

(7)

4. (a) Explain the biting mechanism of venomous snakes.

(6)

(b) Give an account of flight adaptation in birds.

(9)

5. (a) Describe osmoregulation of teleost fishes in marine and freshwater? Explain the mechanism of osmoregulation in sharks. (6+2=8)
- (b) Explain the parental care in amphibians with examples. (7)
6. Write short note on ANY THREE of the following: (3×5=15)
- (i) Polymorphism in Hydrozoa
 - (ii) Metamerism in Annelids
 - (iii) Origin of Mammals
 - (iv) Salient features of chordates

3/3/23 (m)

3/3/23 m