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Your Roll No. ....

219

**B.Sc. Prog./II**

**C**

**LS-202 : BIODIVERSITY—II (ANIMALS)**

*Time : 3 Hours*

*Maximum Marks : 75*

*(Write your Roll No on the top immediately on receipt of this question paper.)*

Draw labelled diagrams wherever necessary.

**Section A**

**37 Marks**

Answer *three* questions in all, including

Question No. 1 which is compulsory.

1. (a) Name the causative organism of the following diseases : 3

(i) Malaria

(ii) Kala-Azar

(iii) Sleeping sickness.

P.T.O.

- (b) Give the location and functions of the following : 4
- (i) Aristotle's Lantern
  - (ii) Ospharidium
  - (iii) Nematocyst
  - (iv) Ommatidium.
- (c) Differentiate between : 6
- (i) Radial and Bilateral symmetry
  - (ii) Facultative and Obligate Parasite
  - (iii) Enterocoel and Schizocoel.
2. (a) Define metagenesis. Explain the process with the help of an example. 6
- (b) What are coral reefs ? Describe different types of coral reefs. 6
3. (a) Give an account of Polymorphism in Hydrozoa. 6
- (b) Describe water Vascular System in Echinoderms. 6

4. Write short notes on any *two* of the following :

(a) Parasitic adaptations in *Ascaris*

(b) Gemmules

(c) Vision in Arthropoda. 6,6

**Section B**

38 Marks

Answer *three* questions in all, including

Question No. 1 which is compulsory.

1. (a) Define : 4

(i) Euryhaline

(ii) Canines

(iii) Hoof

(iv) Claspers.

(b) Differentiate between : 6

(i) Derotremata and Myctodera

(ii) Acrodont and Thecodont

(iii) Prong Horn and Hollow Horn.

- (c) Give *one* example of the following : 4
- (i) Catfish
  - (ii) Limbless Amphibian
  - (iii) Tunicates
  - (iv) Flying lizard.
2. Describe salient features of Cephalochordates and discuss its phylogeny. 12
3. Define Migration and explain Catadromous migration with example. 12
4. Write short notes on any *two* of the following : 6.6
- (i) Respiration in Amphibia
  - (ii) Biting Mechanism in Snakes
  - (iii) Parental Care in Amphibia
  - (iv) Evolution of Man.