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3 (Sem-2/CBCS) ZOO HC1

2025

ZOOLOGY

(Honours Core)

Paper : ZOO-HC-2016

(*Non-Chordates-II*)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct option : 1×7=7
 - (a) Echinoderms are
 - (i) Radially symmetrical in adult
 - (ii) Radially symmetrical in larval stage
 - (iii) Bilaterally symmetrical in adult
 - (iv) All of the above
 - (b) Which of the following cells maintains a current of water in sponges ?
 - (i) procyte
 - (ii) monocyte

- (iii) chromocyte
 - (iv) choanocyte
- (c) The legs of polychaetes are called as
- (i) Pseudopodia
 - (ii) Parapodia
 - (iii) Cirri
 - (iv) Claws
- (d) 'Miracidium' is one of the stages in the development of
- (i) Fasciola hepatica
 - (ii) Taenia solium
 - (iii) Ascaris lumbricoides
 - (iv) Planaria
- (e) The adult Echinoderm shows which of the following symmetry?
- (i) Bilateral
 - (ii) Radial
 - (iii) Transverse
 - (iv) Biradial
- (f) Torsion found in
- (i) Gastropoda
 - (ii) Arthropoda
 - (iii) Cephalopoda
 - (iv) Decapoda

- (g) A hormone that helps in insect metamorphosis (moult) is
- (i) ADH
 - (ii) Estrogen
 - (iii) Androgen
 - (iv) Ecdyson

2. Answer in short : 2×4=8

- (i) What do you mean by coelom?
- (ii) Write about the 'Cysticercus or Bladder-worm' of Taenia Solium.
- (iii) Distinguish between 'Polyp and Medusa'.
- (iv) Write the advantage of torsion in Gastropoda

3. Write short notes on **any three** of the following : 5×3=15

- (i) Compound eye in Insect
- (ii) Aristotle's Lantern
- (iii) Mechanism of locomotion in Asteroidea
- (iv) Onychophora
- (v) Caste system of termites

4. (a) Give an account of Metamorphosis found in Arthropoda. Describe the role of different hormones in the process of Metamorphosis. 5+5=10

Or

Classify the phylum Mollusca upto class giving diagnostic characters and examples of each class.

- (b) Give an account of Metamerism in Annelida with special reference to evolution of segmentation. 5+5=10

Or

"Onychophora is the connecting link between Annelida and Arthropoda." Justify.

- (c) What do you mean by Polymorphism? Give an account of polymorphism in Hydra. 1+9=10

Or

What do you mean by Adaptation? Write about the parasitic adaptation in Helminths.
