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2 SEM TDC ZOOH (CBCS) C 3

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(May/June)

ZOOLOGY

(Core)

Paper : C-3

(Non-Chordates-II)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

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

1. Fill in the blanks : 1×6=6
- (a) True coelom is originated from _____.
 - (b) Septal nephridia in Annelida are _____.
 - (c) The compound eyes of Arthropoda consist of thousands of _____.
 - (d) Ecdysone is secreted by _____ gland.

(2)

- (e) Onychophora is the connecting link between Annelida and ____.
- (f) Starfish moves with the help of ____.
2. Write short notes on (any three) : $4 \times 3 = 12$
- (a) Annelidan characters of Peripatus
- (b) Classification of Annelida
- (c) Morphological and functional variation in different castes of bees
- (d) Water vascular system in Asterozoa
3. Distinguish between (any four) : $3 \times 4 = 12$
- (a) Enterocoel theory and Nephrocoel theory
- (b) Larval form in Holothurozoa and Larval form in Asterozoa
- (c) Pharyngeal nephridia and Septal nephridia in Annelida
- (d) Quasi-social insects and Semi-social insects
- (e) Aquatic respiration and Aerial respiration of *Pila globosa*
- (f) Social life in Bees and Termites

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(Continued)

(3)

4. Describe torsion of Gastropoda with proper diagrams. 5
- Or
- Describe briefly the reproductive system of Peripatus. 5
5. What is pearl? Write its chemical and physical nature. Describe the process of pearl formation. $1+3+3=7$
- Or
- Classify the phylum Mollusca up to class with characters and examples. 7
6. Describe, with diagram, the structural and functional peculiarities of urinogenital system in Hirudinaria. 5
- Or
- Write about evolution of coelom and metamerism in Annelida. 5
7. Write a note on evolutionary significance of trochophore larva. 6
- Or
- Describe the affinities of Echinodermata with Chordates. 6

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