



B.Sc. Honours 2nd Semester Examination, 2019



## **ZOOACOR03T-ZOOLOGY (CC3)**

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

1. Answer any *eight* questions from the following:

 $2 \times 8 = 16$ 

- (a) Write two similarities of phylum Hemichordata with phylum Annelida.
- (b) What is ommatidium? Mention its function.
- (c) Name marine and fresh water oysters responsible for productions of pearl.
- (d) Define coelom. Name one pseudocoelomate animal.
- (e) Write two main characters of phylum Mollusca.
- (f) Name the phylum with (i) no fresh water animals and (ii) with largest number of animals.
- (g) How do you justify the name "Hemichordata"?
- (h) What is madreporite? Write its function.
- (i) Name the phylum to which *Peripatus* belongs. Write two characters of the phylum.
- (j) Write the functions of radula and osphradium.
- (k) What do you mean by "metamere"? Which two body-parts never be metameric?
- (l) What is the difference between open and closed types of blood circulation?
- 2. Answer any *three* questions from the following:

 $3 \times 3 = 9$ 

(a) Draw, label and describe the structure of Pluteus larva.

1+1+1

(b) In which phylum following structures are found?

1+1+1

- (i) Cirri, (ii) Ctenidia,
- (iii) Tiedmann's body
- (c) Briefly illustrate the divisions of labour found in different castes of a honey bee.

3

(d) State significance of torsion in gastropods.

19

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- (e) Write short note on any one: (i) Schizocoelom,
- (ii) Book lung.

 $3 \times 1 = 3$ 

## CBCS/B.Sc./Hons./2nd Sem./Zoology/ZOOACOR03T/2019

3.		Answer any three questions from the following:	5×3 = 15
	(a)	Name the phylum and class of the following animals:	1×5
		(i) Lepisma sp., (ii) Saccoglossus sp., (iii) Nereis sp.,	
		(iv) Squids, (v) Sea cucumber	
	(b)	Classify phylum Annelida up to classes with example.	5
	(c)	Discuss the different types of metamorphosis found in insects with suitable example.	5
	(d)	Write the scientific names of two pearl forming bivalves. What is the mechanism of natural pearl formation? What is blister pearl?	2+2+1
	(e)	Draw and label the component parts of a typical water vascular system of Asterias sp. and briefly describe the mechanism of water-flow through it.	3+2

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