CBCS/B.Sc./Hons./2nd Sem./ZOOACOR03T/2020



WEST BENGAL STATE UNIVERSITY B.Se. Honours 2nd Semester Examination, 2020

ZOOACOR03T-ZOOLOGY (CC3)

Time Allotted: 2 Hours

IBRAI



Full Marks: 40

 $2 \times 8 = 16$

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:
 - (a) State two main characteristics of Phylum Annelida.
 - (b) Define "Nacre".
 - (c) Name the hormones that control metamorphosis in insects.
 - (d) Define rhabdomere.
 - (e) Define stone canal. Write its functions.
 - (f) What is coelomoducts?
 - (g) What do you mean by mosaic vision?
 - (h) Differentiate between haemolymph and haemocyanin.
 - (i) State two characteristic features of Bipinnaria larva of Echinodermata.
 - (j) What is the function of Drone bees?
 - (k) Define chiastoneury.
 - (1) State two examples (Scientific names) of subphylum Crustacea of Phylum Arthropoda.
 - (m) Differentiate between torsion and detorsion.
 - (n) How do you justify the name Echinodermata?
 - (o) Name one accelomate and one coelomate animal.

2.		Answer any <i>three</i> que	estions from the follo	wing:	$3 \times 3 = 9$
(a) Write sł		Write short note on a	nort note on any <i>one</i> :		
		(i) Nephridium	(ii) Ctenidia		
(1	b)	State the general characteristics of Onychophora.			
(c)	In which Phylum the	h Phylum the following structures are found?		
		(i) Osphradium	(ii) Rectal gills	(iii) Ambulacral groove	

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- (d) Briefly describe the various castes found in the social life of a termite.
- (c) Discuss the advantages of torsion.
- (f) Why are hemichordates not considered as chordates?
- (g) Describe Hemimetabolous metamorphosis in insects with suitable diagram. 2+1

3.	Answer any <i>three</i> questions from the following:				
(a) Briefly describe the structure of Auricularia larva with proper diagram.	3+2			
	Name the Phylum and Class of the following animals:				
	(i) Sea Lily (ii) <i>Bombyx mori</i> (iii) <i>Hirudinaria sp.</i>				
	(iv) Cuttlefish (v) Dolichoglossus sp.				
(c)	Classify Phylum Echinodermata up to classes with examples.				
	State briefly the significance of Trochophore larva.				
(e)	Describe the structures associated with terrestrial respiration process in Mollusca with suitable diagram.				
(f)	(f) Write short notes on any <i>two</i> of the following:				
	(i) Superposition image				
	(ii) Arthrobranch gill				

- (iii) Nuptial flight of honey bee
- (g) Describe briefly different types of metamerism found in different animals with suitable diagrams.
 - **N.B.**: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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