

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 2nd Semester Examination, 2023

CC3-ZOOLOGY

Time Allotted: 2 Hours Full Marks: 40

1 11	110 1 1	motion. 2 flours	i all Marks. 10
		The figures in the margin indicate full marks.	
1.		Answer any <i>five</i> questions from the following:	$1 \times 5 = 5$
	(a)	Define coelom.	
	(b)	Give two salient features of Monoplacophora.	
	(c)	What are holometabolous insects? Give an example.	
	(d)	What is 'Aristotle's Lantern'?	
	(e)	Name one insect hormone and its role in metamorphosis.	
	(f)	Give an example of heteronomous metamerism.	
	(g)	What is ommatidium?	
	(h)	What is stomochord?	
2.		Answer any <i>three</i> questions from the following:	5×3 = 15
	(a)	Write down the salient features of Phylum Annelida. Give two examples from each classes.	n 3+2
	(b)	Write a short note on the evolutionary significance of trochophore larva.	
	(c)	Discuss on affinities of Peripatus sp.	
	(d)	Write two theories on the evolution of metamerism.	
	(e)	Write a note on the affinities of Echinodermata with chordates.	
3.		Answer any <i>two</i> questions from the following:	$10 \times 2 = 20$
	(a)	Discuss the structure of a typical nephridium. Describe its types and functions is annelids.	n 3+5+2
	(b)	Define torsion. Discuss torsion as encountered in Gastropoda. Comment on it significance.	s 2+5+3
	(c)	Write down the diagnostic characters of Phylum Echinodermata and classify upto class level with suitable examples (two from each class).	y 3+7
	(d)	Write down characteristic features of Phylum Hemichordata. Discuss on it relationship with non-chordates and chordates.	s 4+(3+3)

2112