UG 1st Semester Examination 2021 ZOOLOGY (Honours)

Paper : DC2 (Non-Chordates II (Coelomates) [CBCS]

Full marks: 25 Time: Two Hours

The figures in the margin indicate full marks.

Candidates are requested to give their answers in their own words as far as practicable.

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1.	Answer any <i>eight</i> questions:	1/2×8=4
(a)	The clitellum of earthworm is concerned with (Fill in the blank).	
(b)	What is the characteristic feature common to all insects?	
(c)	Radula is primarily composed of (Fill in the blank).	
(d)	In earthworm fertilization occurs in (Fill in the blank).	
(e)	The one feature common to all Molluscs is the presence of (Filblank).	l in the
(f)	In echinoderms anus develops from blastopore. (True or False?)	
(g)	Statolith is a sense organ that helps in (Fill in the blank).	
(h)	Give an example of wing-less insect.	
(i)	Name the notochord-like structure found in Hemichordata.	
(j)	The study of Mollusca is known as (Fill in the blank).	
(k)	Serial repetition of body organs in segments is called	
(1)	Respiratory pigment in Mollusca is	
2. A	Answer any two questions:	$2\frac{1}{2} \times 2 = 5$
(a)	Why is <i>Peripatus</i> regarded as a connecting link between Annelida and Arthropoda?	
(b)	Enumerate four distinctive characters of Arachnida.	
(c)	Differentiate schizocoelom and enterocoelom.	
(d)	Briefly write about different types of mouth parts found in insects.	

3. Answer any four questions:

- $4 \times 4 = 16$
- (a) Write the types of nephridia along with their location found in earthworm. State the function of chloragogen cells of earthworm. (3+1=4)
- (b) With a neat diagram briefly describe the different parts of the water vascular system of *Asterias* sp.
- (c) With a neat diagram briefly describe the different parts of the ommatidium.
- (d) Give an account of the nervous system of *Pila globosa*.
- (e) Write the salient features of phylum Hemichordata. Add a note on tornaria larva. (2+2=4)
- (f) Write the general characteristics of phylum Echinodermata. State the salient features of Bipinnaria larva. (2+2=4)
- (g) Define metamorphosis. Write the role of juvenile hormone in metamorphosis of insects. (1+3=4)