[This question paper contains 2 printed pages.]

Sr. No. of Question Paper	:	6282	D	Your Roll No
Unique Paper Code	:	223101		
Name of the Course	:	B.Sc. (Hons.) Zoo	logy	
Name of the Paper	•	Biodiversity – I (N	on-cho	ordata) (ZOHT-101)
Semester	:	I		

Time : 3 Hours

Maximum Marks: 75

## **Instructions for Candidates**

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Attempt any five questions including Question No. 1 which is compulsory.
- 3. Draw well labelled diagrams wherever necessary.

1. (a) Define any three of the following terms :

- (i) Lobopodium
- (ii) Cephalothorax
- (iii) Torsion
- (iv) Metamerism

## (b) Differentiate between the following pair of terms :

- (i) Setae and Parapodia
- (ii) Stomoblastula and Amphiblastula
- (iii) Chitin and Shell
- (iv) Pseudocoelom and true coelom
- (v) Cercaria larva and meta cercaria larva (10)
- (c) Give the exact location and function of the following :

## (i) Cuticle

- (ii) Flame cells
- (iii) Choanocytes
- (iv) Mehlis's gland (8)

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(3)

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		(d	) Classify <b>any three</b> of the following and write their scientific n	ame ·
			(i) Sea mouse	
			(ii) Elephant tusk	
			(iii) Leech	
			(iv) King crab	(6)
2	2.	(a)	Describe the process of conjugation in <b>Paramecium</b> & add a significance.	note on its
	(	(b)	Explain the canal system in Sycon.	(7+5)
3	. (	(a)	How is the coral skeleton secreted & draw the diagrams for it	?
	(	(b)	Describe different types of coral reefs and their formation. significance of coral reefs.	Write the (3+9)
4.	Ľ	Des	cribe the origin of Metazoa.	(12)
5.	(8	a)	Write the life history of Ascaris.	
	(ł	)	Explain the adaptive radiation in Polychaets.	(7+5)
6.	W	/rit	e detailed account of social life in insects and its significance.	(12)
7.	(a	)	Give general characters and outline classification of Phylum Echin	Odermata
	(b	)	Write a brief account of water vascular system in Echinoderms.	(6+6)
8.	W	rite	e short notes on <b>any three</b> of the following :	
	(a)	) I	Effect of torsion in molluscs	
	(b)	) 1	Vision in Arthropoda	
	(c)	S	skeleton in Porifera	
	(d)	Р	olymorphism	(4+4+4)

(300)