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[T]	his question paper con	tains 4 printed	pages.]					
Sr. No. of Question Paper		: 1798	GC-3	Your Roll No				
Unique Paper Code		: 32231101						
Name of the Paper		: Non-Chord	ates I : Protists t	o Pseudocoelomates				
Name of the Course		: B.Sc. (H)	Zoology – CBC	s				
Semester		: I						
Du	ration: 3 Hours		·.	Maximum Marks : 75				
Ins	tructions for Candid	ates						
1.	Write your Roll No. on the top immediately on receipt of this question paper.							
2.								
3. Please attempt various parts of a question at one place only.								
4. Draw well-labelled diagrams wherever necessary.								
1.	(a) Define any three	e of the follow	ing terms :					
	(i) Cyclosis							
	(ii) Encystation							
	(iii) Polyembryo	ony						

(iv) Apolysis

(i) Polyp and Medusa

(b) Differentiate between any four of the following pairs:

(ii) Circumvallation and Circumfluence

(3)

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	(iii) Radial symmetry and Bilateral symmetry					
	(iv)	Primary host and Secondary h	ost	·		
	(v)	Silicoblast and Calicoblast			(8)	
(c)	(c) Give one function for each of the following:					
	(i)	Amphids :			:	
	(ii)	Flame cells		·		
	(iii)	Nematocysts				
	(iv)	Myonemes			(4)	
(d)	(d) Give generic names of the following and classify up to class. Write identifying feature of Phylum in each case:					
	(i)	Venus flower basket				
	(ii)	Sea fan				
	(iii)	Pork tapeworm				
	(iv)	Portuguese man of war			(8)	
(e)	(e) Match the terms in Column 'A' with the organisms in Column 'B'.					
		Column 'A'		Column 'B'		
	(i)	Pinacoderm	(a)	Euglena		
	(ii)	Pyrenoid	(b)	Taenia		

(c) Sycon

(d) Ctenoplana

(4)

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(iii) Comb plates

(iv) Proglottid

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(a) What are coral reefs? Give an account of the different types of coral 2. reefs. (6) (b) What is metagenesis? Explain it with reference to the life cycle of Obelia. (6) 3. Give a detailed account of locomotory organelles and their working in Protista. (12)Give a detailed account of the life cycle and pathogenicity of the filarial worm. 4. Add a note on its nocturnal periodicity. (12)(a) Describe the water canal system in Sycon. Add a note on its 5. importance. (6) (b) Explain sexual reproduction and its significance in Paramecium caudatum. (6)With the help of labelled diagrams, explain the life cycle of Fasciola hepatica. 6. Describe its pathogenicity in detail. (12)7. Give a detailed account of parasitic adaptations in helminthes. (12)8. Write short note on any three of the following: (a) Affinities of Ctenophora

- (c) Course of migration of Ascaris larva with its in host body
- (d) Pathogenic phase of Entamoeba histolytica

(e) Cysticercus larva

(4,4,4)

(1000)