This question paper contains 4 printed pa	agesj			
	Roll No	0.		
S. No. of Question Paper : 7895	55 55 55			
Unique Paper Code : 2231101			F-1	•
Name of the Paper : Diversity and	d Evolution of No	on-chordata—	I [DC-1.1]	
(Protista to P	Pseudocoelomate	es)	· .	
Name of the Course : B.Sc. (Hons.)) Zoology			
Semester : I				•
Duration: 3 Hours			Maximu	ım Marks : 75
(Write your Roll No. on the top	immediately on r	receipt of this q	uestion pape	r.)
Attempt Fiv	ve questions in all	including		
Question N	o. 1 which is co	mpulsory.		
Attempt various par	ts of a question	at one place o	nly.	
Draw well-labell	led diagrams whe	erever possible.	,	
1. (a) Differentiate between any thr	ee pairs of terms	s:		8
(i) Acute amoebic dysenter	y and chronic an	noebic dysente	ry	
(ii) Polyp and Medusa			•	·
(iii) Intermediate Host and D	efinitive Host			
(iv) Plasmotomy and Plasmo	gamy			
(v) Radiata and Bilateria.				
			•	P.T.O.

	ident	tifying features of the Phylum and Class in each case:	9
			,
	(i)	Jelly fish	
	(ii)	Venus's flower basket	
ţ	<i>(11)</i>	venus s nower basket	
	(iii)	Sea fan.	
			.,
(c)	Writ	e functions of any three of the following:	6
-	<i>(i)</i>	Trichocyst	
	(ii)	Comb plates	
			•
,	(iii)	Phasmids	-
٠.			
	(1v)	Gynaecophoric canal.	
(d)	State	e whether the following statements are True or False:	4
	•		
	(i)	All cnidarians are sessile marine forms.	
	(ii)	Paramecium is a true filter feeder.	
	(iii)	Binucleated cysts are the infective stage of Entamoeba histolytica.	
	(iv)	All helminths are not parasites.	

2.	<i>(a)</i>	Describe locomotion in Ciliates and compare is with locomotion in Hagellates.	/
	(<i>b</i>)	Explain the different types of coelom found in organisms. Support your answer with	suitable
	•	examples and diagrams.	. 5
3.	Exp	lain the different types of canal system found in Poriferans. Draw suitable diagra	ms and
	add	a note on the importance of canal system in the life of sponges.	12
4.	(<i>a</i>)	Describe the process of conjugation in <i>Paramecium</i> with the help of neat labelled dia	agrams.
		Write a short note on its significance.	8
	(<i>b</i>)	Discuss the affinities between Phylum Cnidaria and Phylum Ctenophora.	4
5.	(<i>u</i>)	Describe the different types of coral reefs giving suitable diagrams.	6
	(b)	Give a brief account of the parasitic adaptations in cestodes.	6
6.	Nan	ne any two digenetic protozoan pathogens and their vectors. Describe the life of	ycle of
•	any	one of these in detail. Add a brief note on its pathogenicity and prophylaxis.	12
7.	Nan	ne any monogenetic nematode. Discuss its life cycle, pathogenicity and prophylar	xis with
	suita	able diagrams.	12
			P.T.O.

8. Write short notes on any three of the following:

4,4,4

- (a) Polymorphism in Obelia
- (b) Nocturnal periodicity of microfilariae
- (c) Ciliated larva of Schistosoma haematobium
 - (d) Reproduction in protista by binary fission
 - (e) Osmoregulation in Paramecium.

7895

4

1,500