i mş quesi	non paper contains 4+1 printed p	oages]
•	Your Roll No.	·
5916		
	B.Sc. (Hons.) ZOOLOGY/I	st Sem. B
	Paper II—ZOHT-101	*
	Biodiversity I : Biodiversity No	on-Chordata
Time: 3 F	lours	Maximum Marks : 75
(Write your	Roll No. on the top immediately on rec	reipt of this question paper.)
	Answer Five questions in	n all.
	. Q. No. I is compulsor	ry.
1. (a)	Define any five of the following	ng terms :
	(i) Coelom	
	(ii) Protista	
	(iii) Epitoky	
	(iv) Tagmosis	
	(v) Nacre	
	(vî) Totipotent	•

	(vii)	Evisceration	
٠.	(viii)	Metamerism.	
(b)	Distir	nguish between any three of the following:	
	(i)	Binary fission and budding	
	(ii)	Polychaeta and Oligochaeta	
	(iii)	Cilia and flagella	
	(iv)	Holometabolous and hemimetabolous	
	(v)	Bilateria and Radiata	ť
(c)	Give	the zoological names and classification of any the	ree
	of th	e following animals :	
	(i)	Sea mouse	
	(ii)	Water flea	
	(iii)	Brittle star	
	(iv)	Spider	
	(v)	Jelly fish	
	(vi)	Squid.	6

(d)	Give	the precise location of th	e following :
	( <i>i</i> )	Ospharidium	
	(ii)	Mehlis' gland	·
	(iii)	Radula	•
	(iv)	`Spinnerets in spiders.	4.
(e)	Mate	h the terms in Column A v	vith the appropriate one
	in: Co	olumn B :	
	٠.	Column A	Column B
	(i)	Ctenidium	Nereis
	(ii)	, Pedicellaria	Mollusca
	(iii)	Pedipalps	Echinodermata
	(iv)	Parapodia	Spider. 4
(/)	Fill	in the blanks:	•
	(i)	The body cavity of	Nematodes is called
		'a	•
	(ii)	Respiratory structures	in arachnids are
	;	called	2
			P.T.O.

2.	Give an account of sexual reproduction in protozoa. Discuss
	its importance.
3.	What are corals ? How do they form Coral Reefs ? Give an
	account of the various types of Coral Reefs found in the
	world.
4.	Describe the life history of Ascaris. How does it differ from
	that of Liver Fluke ? Discuss its parasitic adaptations. 12
5.	Draw a labelled diagram of the body wall of sycon. Describe
	its canal system and add a note on its functions. 12
6.	Define Eusociality What are the requisites of a social
	community? Compare the social organization of termites with
	that of bees.
7.	Give the general characters of the Phylum Cnidaria and describe
	the different polymorphic forms in them and give their

functions.

8.	Give an	account o	of the	structure	and	function	of	the	water
	vascular	system in	Echi:	noderms.					12

- (a) Give the distinguishing features of the major classes of Phylum Mollusca.
  - (b) Explain the phenomenon of Torsion in gastropods. 6,6
- 10. Write short notes on any three of the following: 4,4,4
  - (i) Compound eye;
  - (ii) Metamerism;
  - (iii) Foot in cephalopoda;
  - (iv) Origin of Metazoa;
  - (v) Adaptive radiation in polychaeta;
  - (vi) Locomotion in Sarcodina.