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FIF	TH S	EMESTER B.Sc. DEGRE	EEE	XAMINATION	, NOVEMBER 2	014
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		ZO 5B 09—ANIMAL DIV	ERSI	TY (Part 1 Non	-Chordata)	M
me : Thr	ee Hou	rs			Maximum: 30 V	Weightage
I. An	swer al	l <i>twelve</i> questions. Each questio	n car	ries ¼ weightage :		
1	Bistingnish between competives and commissures:					
		Noctiluca.	(b)	Trichonympha.		
	(c)	Vorticella.	(d)	Paramecium.		
2	Phylu	m Mesozoa includes :				
		Orthonectida and Dicyemida.	(b)	Orthonectida an	d Calcarea.	
	(c)	Orthonectida and Hydrozoa.	(d)	Dicyemida and l	Hydrozoa.	
3	Cidip	ped is the larva of:			Describe canal system	
	(a)	Mollusca.	(b)	Echinodermata.		
	(c)	Phoronida.	(d)	Ctenophora.	Enlist the solvent feat	
4	Aristo	tle's lantern is present in :			Explain the sociogical	
		Antedon.	(b)	Echinus.		
eigh au deie	(c)	Ophiothrix.	(d)	Cucumaria.	Name tipo polymorph	
B. Na	me the	following:				
5						
6	Name the genus of dog tape worm.					
7		the larva of Balanoglossus.			this bety not a diam of	
8		the excretory organs of Penaeu	ıs.			

9 _____ is the anticoagulant present in the saliva of leech.

C. Fill up the blanks:

10 Rhizostoma belongs to Order -

- 11 Generic name of horn coral is -
- are the locomotory organs of Nereis.

II. Answer all nine questions :-

- 13 Describe the structural peculiarities of Noctiluca.
- 14 What is a digenetic parasite? Give an example.
- 15 What is evisceration?
- 16 Explain parasitic castration with a suitable example.
- 17 Enlist the salient features of Phylum Phoronida.
- 18 What is ink sac? Mention its function.
- 19 Distinguish between connectives and commissures.
- 20 Explain sexual dimorphism in Penaeus.
- What is a connecting link? Give an example.

 $(9 \times 1 = 9 \text{ weightag})$

III. Answer any five questions:

- 22 Describe feeding and nutrition in Paramecium.
- 23 Discuss the mode of infection and pathogenicity of any two parasitic nematodes.
- 24 Describe canal system in sponges.
- 25 Enlist the salient features of Hemichordata.
- 26 Explain the zoological significance and affinities of Peripatus.
- 27 With a neat labelled sketch, describe the structure of trochophore larva.
- 28 Name two polymorphic hydrozoans and describe their structural

 $(5 \times 2 = 10 \text{ weights})$

IV. Answer any two questions:

- 29 Describe the respiratory system and mode of respiration in Pila.
- 30 With neat labelled sketches, describe the thoracic appendages of Penaeus.
- 31 Describe the structure of Obelia medusa and add a note on metagenesis in Obelia.