Roll	No.					
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Total Pages: 2

757301

Jan. 2022

M.Sc. (Zoology) IIIrd SEMESTER Structure and Functions of Non-Chordates (MZO-301)

Time: 90 Minutes] [Max. Marks: 25

Instructions:

757301/60/111/33

- 1. It is compulsory to answer all the questions (1 mark each) of Part-A in short.
- 2. Answer any three questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART - A

1.	(a)	What do you understand by schizocoel	ous	
		coelom?	(1)	
	(b)	Describe gonocoel theory of origin of coelom.	(1)	
	(c)	Define book lungs.	(1)	
)	(d)	Define protonephridia.	(1)	
	(e)	What do you understand by ctenidium?		
	(f)	State the difference between protonephridia	and	
		metanephridia.	(1)	
	(g)	What do we mean by pseudo metamerism?	(1)	
	(h)	What do you understand by paurometabo	lous	
		development?	(1)	

[P.T.O.

ı	(i)	Explain chewing-lapping type of mouth p	arts
		in insects.	(1)
	(j)	Comment over crustacean larva megalopa.	(1)
		PART - B	
2.	(a)	Discuss the organization of coelom in physipunculida.	
	(b)	Differentiate between protostomous and deuterostor	(3) mous
		coelomates.	(2)
3.	(a)	Comment over mechanism of locomotion in case	e of
		Earthworm.	(2)
	(b)	Describe the nervous system of class Insecta.	(3)
4.	Exp	olain filter feeding mechanism in Mollusca.	(5)
5.	(a)	Elaborate any two larva of phylum Echinoderma	ıta.
			(2)
	(b)	Explain the working mechanism of excretion	and
		osmoregulation in case of Malpighian tubule.	(3)
6.	(a)	Comment over economic importance of invertebra	ates.
	<i>a</i> >		(2)
	(b)	Explain the flying mechanism in dragonfly.	(3)