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Total Pages: 3

325102

## December 2023

## B.Sc. (Life Science) – I SEMESTER Animal Diversity-I (NBLS-102)

Time: 3 Hours]

[Maximum Marks: 75

## Instructions:

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.
- 4. Draw the diagrams wherever required.

## PART-A

1. (a) What are barrier reefs? (1.5)

(b) Draw the diagram of nematocysts. (1.5)

(c) Define diffuse type of nervous system. (1.5)

(d) Write the economic importance of arthropods. (1.5)

(e) Enlist the prominent characters of molluscan class cephalopoda. (1.5)

(f) What is the difference between worker bees and drones?

(1.5)

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	(g)	What do you understand by book lungs?	(1.5
	(h)	What do you understand by byssus apparatus?	(1.5
	(i)	Enlist the prominent characters of echinoderm holothuroidea.	clas
	(j)	What do you understand by retrogressive metamorp	hosis (1.5
		PART-B	
2.	(a)	Discuss sycon and leucon type canal system along a detailed diagram.	g with
	(b)	With the help of diagram explain the structumiracidium larva.	are o
3.	(a)	Discuss the basic body structure of enidarians.	(5
	(b)	Write a note on corals.	(10
4.	Exp	plain the life cycle of Ascaris lumbricoides with dia	igram (15
5.	(a)	Enlist the prominent features of following arthropod c	lasses
		(i) Arachnida. Osmon to memails edi wer(I)	
		(ii) Crustacea.	
		(iii) Merostomata.	(6
	(b)	Elaborate different types of metamorphosis for insects. Also explain the role of hormones in metamorphosis.	

6.	(a)	Discuss the following echinoderm larva with diag		
		(i) Ophiopluteus.		
		(ii) Branchiolaria.		
		(iii) Doliolaria.	(9)	
	(b)	Explain the process of pearl formation.	(6)	
7.	(a) Describe the ambulacral system found in echinoder			
	(b)	Discuss the phenomenon of torsion found in gastrope	oda. (7)	