## L16 11/12/18 Morning

[This question paper contains 4 printed pages]

Your Roll No. :....

Sl. No. of Q. Paper : 204 I

Unique Paper Code : 42231102

Name of the Course : B.Sc.(Prog.)

Name of the Paper : Animal Diversity

Semester : I

Time: 3 Hours Maximum Marks: 75

## Instructions for Candidates:

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) There are two sections, Section-A and Section-B to be answered on separate answer-sheets.
- (c) Answer three questions from each section, including Question No. 1 which is compulsory.
- (d) Draw labelled diagrams wherever necessary.

## Section - A NONCHORDATE

1.	(a)	Define the following terms: 4		
		(i) Enterocoel		
		(ii) Vector		
		(iii) Cephalization		
		(iv) Bilateral Symmetry		
	(b)	Give the scientific names of the following:		
		(i) Cuttle fish		
		(ii) Sea mouse		
		(iii) Glass rope sponge		
		(iv) Feather star		
	(c)	Classify the following upto class: 4		
		(i) Limulus		
		(ii) Octopus		
		(iii) Nereis		
		(iv) Tubipora		
	(d)	Differentiate between the following terms:		
		(i) Ostium and osculum		
		(ii) Gravid and mature proglottid		
		(iii) Protogyny and protandry		
		(iv) Monogenetic and digenetic life history		
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2.	(a)	a) Discuss in detail the general features of kingdom Protista.					
	(b)	Explain Sol-Gel theory of locomotion in Protozoa. 6					
3.	(a)	Draw a labelled sketch and explain the structure of water vascular system in Starfish.					
	(b)	Explain the mechanism of locomotion in Starfish. 4					
4.	Write short notes on any <b>two</b> of the following 6+6						
	(a)	Mosaic vision					
	(b)	Metamorphosis in Insects					
	(c)	Polymorphism in Hydrozoa					
	(d)	General features of phylum Mollusca					
		Section - B					
		CHORDATA					
1.	(a)	Define the following terms: 4					
		(i) Perching					
		(ii) Endothermy					
		(iii) Osmoconformers					
		(iv) Holobranch					

	(b)	Give	location and function of the following	g: 3			
		(i)	Patagia				
		(ii)	Wheel organ				
		(iii)	Pygostyle				
	(c)	Diffe	erentiate between the following term	s: 6			
		(i)	Anapsida and diapsida				
		(ii)	Euryhaline and stenohaline				
		(iii)	Ratitae and carinatae				
		(iv)	Lemuroidea and tarsioidea				
2.	(a) Give an account of salient features of Protochordata.						
	(b)	Dis	cuss phylogeny of Hemichordates.	5			
3.	Explain in detail the various ways of parental care in Amphibians.						
4.			hort notes on any two of the following	g:			
			The gameta is also in	6+6			
	(a	) Flig	ght adaptations in birds				
	(b	) Os	moregulation in fishes				
	(0	/	olution of Primates				
	neral features of Agnatha						
			4 20	000			