Duration: 2:30 Hours Marks: 75

NB: 1. All questions are compulsory and carry equal marks.

2. Figures to right indicate full marks.

3. Draw neat and labelled diagrams wherever necessary.

4. Answer the questions in order.

Q. 1		Describe the following.	Marks
	a.	Types of symmetry.	07
		'OR'	
	a.	Theories of segmentation.	07
	b.	Cephalization and its significance.	08
		'OR'	
	b.	Formation of germ layers.	08
Q. 2		Explain the following.	
	a.	What is binomial nomenclature? Write its rules.	07
		'OR'	
	a.	Types of locomotion in Protozoa.	07
	b.	Types of sponge spicules and their functions.	08
		'OR'	
	b.	Life cycle of *Fasciola hepatica.*	08
Q.3		Describe the following.	
	a.	Adaptive radiation in class polychaeta	07
		'OR'	
	a.	Social life in class Insecta with any one example.	07
	b.	Torsion.	08
		'OR'	
	b.	General characters of phylum Echinodermata	08
Q.4		Explain the following.	
	a.	Digestive system of Sepia.	07
		'OR'	
	a.	Habit, habitat and classification of Sepia.	07
	b.	Eyes and statocyst in Sepia.	08
		'OR'	
	b.	Nervous system of Sepia.	08

Q. 5		Write short notes on the following	
	a.	Tagmatization.	04
		'OR'	
	a.	Unicellularity and multicellularity	04
	b.	Functions of canal system.	04
		'OR'	
	b.	Parasitic adaptations in *Ascaris lumbricoides*.	04
	c.	Habit and habitat of Annelids.	04
		'OR'	
	c.	Megalopa larva.	04
	d.	Locomotion in Sepia.	03
		'OR'	
	d.	Economic importance of Sepia.	03

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