Roll No. .....

(12/19-II)

## 5167

## B. Sc. EXAMINATION

(First Semester)

**ZOOLOGY** 

Second Paper

Life and Diversity from Coelentrata to Helminths and Cell Biology-II

Time: Three Hours Maximum Marks: 40

Note: Q. No. 1 is compulsory. Four more questions are to be attempted, selecting two from each Section. All questions carry equal marks.

- 1. Define the following terms:
  - (a) Blastostyle
  - (b) Pneumatophore
  - (c) Interstitial Cells
  - (d) Prostate Gland

Schistosomiasis (e) (f) Synaptonimal Complex (g) Oncogenes (h) Non-Histone Proteins (i) Plasmocytes (j) Corals. 1×10=10 Section A What are coelenterates? Give general character 2. of phylum coeleontrata and classify this phylum upto order level. 71/2 3. Write notes on the following: Myoepithelia cell of Obelia 31/2 Medusa of Obelia. (b) 4 4. Describe the life-history of Fasciola hepatica. 71/2 5. Write notes on the following: Vitellaria of Fasciola hepatica (a) 21/2 (b) Polymorpism in siphonophora 21/2 (c) Barier reef. 21/2 B-5167 2

## Section B

6.	Wi	nat are giant chromosomes? Expla	in the
	Sul	icture and their significances with ref	erence
	to	Lampbrush chromosomes.	71/2
7.	Write short notes on the following:		
	(a)	Nuclear Pore Complex	31/2
	(b)	Nuleosomes.	4
8.	Write short notes on the following:		
		Structure of IgG.	31/2
	(b)	Prophase of meiosis.	4
9.	Write short notes on the following:		
		Mode of action of B cells	21/2
		Second Line of Defense	21/2
	(c)	Antigens.	21/2
			and the second second