Roll No.

(05/16-I)

5187

B. Sc. EXAMINATION

(Second Semester)

ZOOLOGY

Second Paper

Life of Diversity from Molluska to Hemichordata and Genetics-II

Time: Three Hours Maximum Marks: 40

Note: Attempt *Five* questions in all. Q. No. 1 is compulsory. For the remaining four questions selecting at least *one* question from each Section.

(Compulsory Question)

- 1. Give short answers to the following questions:
 - (a) Radular formula in Pila.
 - (b) Monopectinate gills.

	(c)	Tube feet and its functions		5.	(a)	Digestive system in Pila.	4
	(d)	Pluteus larva			(b)	V.S. of body wall in star fish.	1/2
	(e)	Aristotle's lantern				Section B	
	(f)	Stomochord					
	(g)	Erythroblastosis foetalis.	Water Ar	6.	(a)	Explain A, B, O group system in Human	n. 4
	(h)	Karyotype			(b)	Amniocentesis. 3	1/2
	(i)	Nucleoside					
	(j)	Paracentric inversion. 1×10	=10	7.	(a)	Turner's syndrome.	4
		Section A			(b)	Phenylketonuria. 3	1/2
2	(a)	Explain nervous system in Pila v	with	8.	(a)	Helical structure of DNA.	4
1	64	suitable diagram.	4		(b)	Structure of T ₂ bacteriophage. 3	1/2
	(b)	External morphology of star fish.	31/2	9.	Wri	te a note on numerical chromosom	
3.	(a)	Respiratory system in Balanoglossus	5. 4		mut	ations.	71/2
	(b)	Coelom in Balanoglossus.	31/2				
4.	(a)	Circulatory system in Asterias.	4				
	(b)	Discuss Tornaria larva with well labe	elled				
		diagram.	31/2				

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1,410