Roll No. ....

**Total Pages: 03** 

# GSE/D-21

### 800

### **ZOOLOGY**

## Paper II

Life and Diversity From Coelenterata to Helminthes and Cell Biology-II

Time : Three Hours] [Maximum Marks : 40

**Note**: Attempt *Five* questions in all. Q. No. 1 is compulsory. Select *two* questions each from Sections A and B. Draw well labelled diagrams wherever necessary.

#### (Compulsory Question)

- 1. Short answer type questions (in about 20-30 words each):  $10 \times 1=10$ 
  - (i) Zooids
  - (ii) Laural's Canal
  - (iii) Proglottids
  - (iv) Digenetic life-cycle
  - (v) Kinetochore
  - (vi) Nuclear pore complex
  - (vii) Barr body
  - (viii) Karyotype

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	(ix)	Differentiate Oncogenes	between	Proto-oncogenes	and
	(x)	Antibody.			
	(A)	7 Hitioody.	Section A		
2.	(a)	Enumerate the		nd functions of medu	ica of
4.	(a)	obelia.	structure a	nd functions of medi	5½
	(b)	What are Ato	lls and Lag	oons ?	2
3.	(a)		C	stem of Liver Fluke	
	(b)		5 5	ram of V.S. of body	
	(0)	of Fasciola h	Ū	14111 01 V.S. 01 0049	21/2
4.	(a)		-	is coelenterates.	2½
	(b)		-	of Delayed Polymbi	rvonv
	(-)	of Fasciola hepatica.			
5.	Desc	cribe the life	history, r	node of infection	and
	path	ogenicity of Tri	ichinella and	d Wuchereria.	71/2
			Section B		
6.	(a)	What are hist	one and nor	n-histone proteins ? I	Name
		the major h	istones fou	nd in the nucleus	and
		enumerate the	eir functions		4
	(b)	Write a short	note Salivar	ry gland chromosom	e. <b>3½</b>
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7.	(a)	Write a short note on cell cycle.	$4\frac{1}{2}$		
	(b)	Differentiate between Mitosis and Meiosis.	3		
8.	(a)	Explain various causes of Cancer.	3½		
	(b)	What is Chemotherapy ? Discuss Chemotherap	y of		
		Cancer.	4		
9.	(a)	Describe mechanism of antigen-antibody interactions.			
			41/2		
	(b)	Differentiate between B Cells and T Cells	3		

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