## 6 SEM TDC ZOOH (CBCS) C 13

2024

(May)

ZOOLOGY

(Core)

Paper: C-13

## ( Developmental Biology )

Full Marks: 53
Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

1.	Fill i	in the blanks: 1×5=5
	(a)	The type of cleavage found in insects is
	(b)	The notochord develops from embryonic germ layer is called
	(c)	Haemoendothelial placenta takes place in
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	(d)	At the end of gastrulation, _ movements start.		
	(e)	is the study of aging.		
2.	Wri	te short notes on (any three):	3×3=9	
	(a)	Significance of blastulation		
	(b)	Fate map		
	(c)	Yolk sac and its significance		
	(d)	Plasmagenes		
	(e)	Parthenogenesis		
3.	Dis	tinguish between (any two):	3×2=6	
	(a)	Fertilizin and Antifertilizin		
	(b)	Epiboly and Emboli		
	(c)	Acrosome reaction and Cortical reac	tion	
4.	sub	fine gastrulation. Describe briefly odivisions and fates of different		
	lay	ers. Or	2+6-10	
	Wh	What is gametogenesis? Describe the process		
	of	spermatogenesis.	2+8=10	

(Continued)

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5. What is placenta? Classify the different types of placenta and also discuss their functions.

1+6+4=11

Or

What is an organizer? Describe the structure and types of organizer. What are the properties of organizer? 1+3+4+3=11

6. What are the different types of stem cells?

Describe elaborately. 12

Or

What are extra-embryonic membranes? Discuss the structure and functions of extra-embryonic membranes found in chick.

2+10=12

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