## 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 in the blanks:		
	(a)	The type of cleavage found in insects is	
	(b)	The notochord develops from embryonic germ layer is called	
	(c)	Haemoendothelial placenta takes place	

24P/892

in \_\_\_\_.

(Turn Over)

	(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			
	<u> </u>	Yolk sac and its significance			
	<u> </u>	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.	sul	fine gastrulation. Describe briefly odivisions and fates of different g ers.			
	3	Or			
	What is gametogenesis? Describe the process				
		spermatogenesis.	2+8=10		

**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.

Or

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

2+10=12

\*\*\*