6 SEM TDC ZOOH (CBCS) C 13

2022

(June/July)

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)	Avian egg is	
	(b)	Mammals in which true placenta present are called	is
	(c)	At the end of gastrulation, movements start.	

(2)

	(d)	The embryonic tissue that influences other tissues to differentiate is known as		
	(e)	The pituitary hormone is involved as an inhibitor in the overall control of metamorphosis.		
2.	Dist (any	nguish between the following pairs two): 2×2=4		
	(a)	Fertilizin and Antifertilizin		
	(b)	Epiboly and Emboly		
	(c)	Area pellucida and Area opaca		
3.	Writ	rite short notes on the following (any two): $5\times2=10$		
	(a)	Regeneration		
	(b)	Stem cell		
	(c)	Ageing		
4.		What do you mean by fertilization? Discuss how sperm approaches towards egg during fertilization.		

Or

What is cleavage? Discuss briefly the

patterns of cleavage with examples.

2.

3.

2+8=10

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

2+10=12

Or

Define placenta. Classify the different types of placenta. What are its functions? 2+6+4=12

6. What is ontogenetic development? Discuss the different phases of ontogenetic development.

2+10=12

Or

What is 'gametogenesis'? Describe the process of 'oogenesis' in detail. What type of cytoplasmic changes occur during the formation of a mature oocyte? 2+7+3=12

