Total No. of Printed Pages-3

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:		1×5=5
	(a)	Avian egg is	
	(b)	Mammals in which true placenta present are called	is
· 4	(c)	At the end of gastrulation, movements start.	

(Turn Over)

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- (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. Distinguish between the following pairs (any two): 2×2=4
 - (a) Fertilizin and Antifertilizin
 - (b) Epiboly and Emboly
 - (c) Area pellucida and Area opaca
- 3. Write short notes on the following (any two):

5×2=10

- (a) Regeneration
- (b) Stem cell
- (c) Ageing
- 4. What do you mean by fertilization? Discuss how sperm approaches towards egg during fertilization. 2+8=10

Or

What is cleavage? Discuss briefly the patterns of cleavage with examples. 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

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