

Total No. of Printed Pages—3

6 SEM TDC ZOOH (CBCS) C 13

2 0 2 4

(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*

Fill 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 _____.

6 SEM 2024
Zoology

(2)

(d) At the end of gastrulation, _____ movements start.

(e) _____ is the study of aging.

2. Write short notes on (any three) : $3 \times 3 = 9$

(a) Significance of blastulation

(b) Fate map

(c) Yolk sac and its significance

(d) Plasmagenes

(e) Parthenogenesis

3. Distinguish between (any two) : $3 \times 2 = 6$

(a) Fertilizin and Antifertilizin

(b) Epiboly and Emboli

(c) Acrosome reaction and Cortical reaction

4. Define gastrulation. Describe briefly the subdivisions and fates of different germ layers. $2+8=10$

Or

What is gametogenesis? Describe the process of spermatogenesis. $2+8=10$

(3)

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. $2+10=12$
