6 SEM TDC ZOOH (CBCS) C 13

2023

(May/June)

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. F	Fill	in the blanks:	1×5=5
(The membrane is a structusurrounding the outer surface of plass membrane of an ovum.	
(pattern arises from the spat and temporal regulation and coordinati of the events.	
(In vertebrate, protein yolk is synthesized in	
P23/ 7	86	(Turr	ı Over)

- (d) The placental barrier between the maternal and foetal blood is minimum 5
- (e) between the maternal and foetal tissues. S the temporary connection
- 'n Distinguish between the following (any two):
- (a) Capacitation and Acrosome reaction
- *(b)* Intra- and Inter-cellular differentiation
- <u>C</u> Genetic teratogenesis and Environmental teratogenesis
- ω Write short notes on the following (any two): $5 \times 2 = 10$
- (a) IVF
- (b) Cytoplasmic determinants
- (c) Amniocentesis
- 4 What is spermatogenesis. various events that take gametogenesis? Discuss the place during 2+8=10

Q

reaction. How can polyspermy be prevented? Discuss about fertilizin-antifertilizin 7+3=10

(Continued)

Ċυ Discuss the fate of germ layers. Write a note on implantation of an embryo in human. 6+6=12

process of development. Add a note on fate What are organisers? Mention its role in the 2+6+4=12

Ġ What is regeneration? Discuss its different modes. 2+10=12

9

about the insect metamorphosis. What is metamorphosis? Discuss in detail 2+10=12
