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C 60	008	7	(Pages : 2)	Name	
				Reg. No	
ř	S	IXTH SEMESTER B.Sc.	DEGREE EXAMIN	VATION, MARCH 2019	
18			(CUCBCSS)		
			Zoology		
			BIOLOGY, DEVELO	PMENTAL BIOLOGY AND	
Time:	Thr	ee Hours	200		
			920000	Maximum: 80 Marks	
I.	On	e Word Questions A	Part A		
	1	One Word Questions, Answer all questions, Each question carries 1 mark.			
		is			
	2	hormone inhibits ovulation.			
	3	3 During the first two or three days of lactation, the fluid that comes from the mammary gland is called ———.			
		A baby conceived by in-vitro fertilization is called ———.			
	5	Theory of Recapitulation was proposed by —			
	6	The type of parthenogenesis in which females are produced from unfertilized egg is called ———.			
	7	7 In Amphioxux, the process of proliferation and extension of ectodermal area over the other parts is called ———.			
	8	The twisted membranous stripes joining the yolk to the ends of the egg shell in chick is called			
	9	9 In frog, the embryo between 16 and 64 cell stages is called			
	10	The most important hormone involved in amphibian metamorphosis is ———.			
			Water and A	$(10 \times 1 = 10 \text{ marks})$	
			David To	Lo marks)	

Part B

II. Short Answer Questions. Answer any ten questions. Each question carries 2 marks:

- 11 Write on the effects of alcohol on development.
- 12 Distinguishbetween semiparity and iteroparity.
- 13 What is corpus albicans?
- 14 Write briefly on surrogacy.
- 15 What is PNDT Act?

Turn over

- 16 Write briefly on grey crescent.
- 17 Distinguish between totipotency and pluripotency.
- 18 Comment on primitive streak in chick embryo.
- 19 Distinguish between determinate and indeterminate types of development.
- 20 What is a fate map?
- 21 Comment on blastulation in Amphioxus.
- 22 Comment on egg membranes?

 $(10 \times 2 = 20 \text{ marks})$

Part C

- III. Paragraph questions. Answer any five questions. Each question carries 6 marks:
 - 23 Write on Assisted Reproductive Techniques.
 - 24 Briefly explain different methods of fertility control.
 - 25 Explain the male reproductive system in human beings.
 - 26 Explain different types of parthenogenesis.
 - 27 Write on different types of cleavage.
 - 28 Classify animal eggs with examples.
 - 29 Explain gene action during development.
 - 30 What are organizers? Write on organizers in amphibian development.

 $(5 \times 6 = 30 \text{ marks})$

Part D

- IV. Essay questions. Answer any two questions. Each question carries 10 marks.
 - 31 Elaborate on the reproductive cycles and their hormonal control in mammals.
 - 32 Explain the development of man up to the formation of germ layers.
 - 33 Explain the organogeny of brain in frog.
 - 34 Explain cleavage, blastulation and gastrulation in chick.

 $(2 \times 10 = 20 \text{ marks})$