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[53]. SEAT No.____

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SARDAR PATEL UNIVERSITY

B.Sc. VI – SEMESTER EXAM

ZOOLOGY, US06CZOO04 (DEVELOPMENTAL BIOLOGY)

DATE	: 2/4/2018, MOND	AY TIME	:10am to 1pm	WARKS: 70	
Q-I	MULTIPLE CHOICE QUE	ESTIONS.		(10	
1.	Which one is considered as a tertiary egg membrane?				
	(a) Albumen	(b) Mermaids purse	(c) Calcareous shell	(d) All of these	
2.	Haploid parthenogenesis occurs in				
	(a) Bees	(b) Wasps	(c) Rotifers	(d) All of these	
3.	Which one of the following enzymes, produced by the acrosome of Human sperm?				
	(a) Amylase	(b) Hyaluronidase	(c) Lipase	(d) Protease	
4.	The egg of Amphioxus is				
	(a) Microlecithal	(b) Mesolecithal	(c) Macrolecithal	(d) Polylecithal	
5.	In Amphioxus, hatching	g occurs after how many	hours of fertilization?		
	(a) 8 hours	(b) 12 hours	(c) 16 hours	(d) 20 hours	
6.	The third cleavage of Amphioxus is				
	(a) Verticle	(b) Meridional	(c) Horizontal	(d) None of these	
7.	The olfactory organ & enamel of teeth of Frog formed from				
	(a) Marginal zone	(b) Vegetal region	(c) Epidermal ectodern	n (d) Mesoderm	
8.	The intestine of young	Frog is short because of	habit.		
	(a) Herbivorous	(b) Carnivorous	(c) Insectivorous	(d) Parasitic	
9.	The area opaca in Chick embryo is located				
	(a)Centrally	(b) Horizontal	(c) Peripherally	(d) Both (a) & (c)	
10.	If the Chick embryo having '5' somites then what is the age of embryo?				
	(a) 15 hours	(b) 20 hours	(c) 25 hours	(d) 30 hours	



Q-II	ANSWER TH	ANSWER THE FOLLOWING QUESTIONS IN SHORT. (ANY TEN)				
1,	Draw and label the diagram of Human sperm.					
2.	Write about secondary egg membranes.					
3.	Write about	Write about mermaids purse.				
4.	Explain the s	Explain the second cleavage in Amphioxus.				
5.	Write about	Write about fertilization of Amphioxus eggs.				
6.	Explain the metamorphosis in Amphioxus.					
7.	Draw and lal	Draw and label the diagram of Fate map of Frog.				
8.	Write about egg of Frog.					
9.	Explain the spawning in Frog.					
10.	Explain the fertilization of Hen's egg.					
11.	Draw and label the diagram of extra embryonic membranes of Chick embryo.					
12.	Write about functions of yolk sac.					
Q-III	Write notes on: (a) Types of eggs.					
		(b) Significance of parthenogenesis.	(3)			
		OR				
Q-III	Write notes on: (a)Diploid parthenogenesis with example.		(6)			
		(b) Primary egg membranes.	(4)			
Q-IV	Describe :	(a) Larval development of Amphioxus.	(7)			
		(b) Blastula of Amphioxus.	(3)			
		OR				
Q-IV	Explain the g	strulation in Amphioxus with diagram.				
Q-V	Describe the metamorphosis in Frog.					
		OR .				
Q-v	Write notes of	on: (a) Fertilization in Frog egg. (b) Cleavage in Frog.	(5+5)			
Q-VI	Describe:	(a) 72 hours of embryo with labeled diagram.	(7)			
		(b) Functions of Allantois.	(3)			
		OR				
Q-VI	Write notes on: (a) Hen's egg with labeled diagram.		(6)			
		(b) Cleavage in Chick development.	(4)			