	EAT NO.	No. of Printed Pages : 2				
		SARDAR PATEL UNIVERSITY				
L	50)	D CA VILCENAECTE	r zoology exam -	2021		
	(service)			Co Clip San Jos		
		US06CZOO22, (Er	nbryology and Evolut	tion)		
DATE: 16/7/2021, Friday		lay TIME: 10	TIME: 10am to 12noon		MARKS: 70	
			R.P. Seien			
Q-1.	. MULTIPLE CHOICE QUESTIONS.				(10)	
1.	In Frog, jelly coat see	creted from	A second	*		
	(a) Ovary	(b) Oviduct	(c) Uterus	(d) Cloaca		
2.	According to yolk content, the Frog egg is					
	(a) Macrolecithal	(b) Polylecithal	(c) Microlecithal	(d) Mesolecithal		
3.	The olfactory organ & enamel of teeth of Frog formed from					
	(a) Marginal zone	(b) Mesoderm	(c) Vegetal region	(d) Epidermal ectode	m	
4.	The area of pellucida in Chick embryo is located					
	(a)Centrally	(b) Horizontal	(c) Peripherally	(d) Both (a) & (c)		
5.	Which of the following stage of Chick embryo shows the flexure & torsion?					
	(a) 18 hours	(b) 23 hours	(c) 56hours	(d) All of these		
6.	The function of allantois in Chick embryo is					
	(a) Storage of nutrie	nts (b) Protect the eml	bryo (c) Storage of waste	(d) All of these		
7.	Origin of life supported by					
	(a) Miller	(b) Coaservates	(c) Redi	(d) None of these		
8.	Comparison of parts of body to study evolution is called comparative					
	(a) Embryology	(b) Anatomy	(c) Vertebrate	(d) Paleontology		
9.	If fertilization taken place but zygote cannot survive is a kind of Isolation					
	(a) Post mating	(b) Premating	(c) Geographic	(d) Sexual		
10.	Different hybrid animals are selected by which selection?					
	(a) Sexual	(b) Artificial	(c) Natural	(d) Induced		

(1)

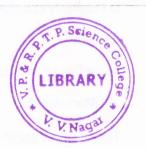
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O-2. FILL IN THE BLANKS.

- 1. The intestine of tadpole larva is very long because of ______ habit.(Insectivorous or Herbivorous)
- 2. Formation of chalaza is a characteristic of egg. (Hen or Frog)
- 3. Diameter towards polar of earth is _____. (7927 or 7987)
- 4. Micro evolution is a _____ changes. (Minute or Major)
- 5. Third cleavage of Frog is meridional. (True or False)
- 6. First somite is formed in Chick embryo after 30 hours of fertilization. (True or False)
- 7. Isolation is the process to prohibit breeding. (True or False)
- 8. Bright yellow or black colours are warning coulouration. (True or False)

Q-3. ANSWER IN SHORT. (ANY TEN)

- 1. Write about functions of jelly coat in Frog.
- 2. Write about blastula of Frog.
- 3. Enlist the structure formed from endoderm of Frog in Future.
- 4. Draw & labeled the surface view showing early primitive streak.
- 5. Write about chemical composition of yolk in Hen's egg.
- 6. Write about nature of fertilized Hen's egg.
- 7. Miller's experiment
- 8. Write theory of special creation
- 9. Write about principles of Aristotle
- 10. Write about seasonal isolation
- 11. What is artificial selection?
- 12. Write about secondary sexual characteristics of Vertebrates.
- Q-4. ANSWER IN DETAILED. (ANY FOUR)
- 1. Explain the process of gastrulation occurs in Frog.
- 2. Describe the metamorphic changes of Frog tadpole during metamorphosis.
- 3. Describe the 72 hours of Chick embryo.
- 4. Describe the structure and functions of extra embryonic membranes of Chick embryo with labeled diagram.
- 5. Explain nebular hypothesis.
- 6. Discuss theory of evolution by Lamarck.
- 7 Write a note on micro evolution.
- 8. Describe the general features of species.



(8)

(20)