

## **DBX-20**

Seat No.

## B. Sc. (Sem. II) (CBCS) (W.E.F. 2019) Examination July - 2022

Zoology: Paper - Z-02

Time :  $2\frac{1}{2}$  Hours] [Total Marks: 70 Draw neat and labelled diagram wherever Instructions: (1) necessary. (2) Figures to the right side indicate full marks for the question. (3)Attend all five questions. 1 (a) Answer the following questions in short: 4 Which sub-phylum having notochord well (1) developed? (2) Herdmania is belongs to which class of Urochordata? Name division having no jaws. (3) **(4)** Which class of vertebrates is with an exoskeleton of feathers? (b) Answer any one of the following question: 2 Explain Notochord. (1) (2) Write any four characters of Urochordata. Answer any one of the following question: 3 (c) Write characters of Reptiles. (1) Write characters of electric ray-fish. (2) (d) Answer any one of the following question: 5 Write the characters of cephalochordate. (1) Draw classification chart of chordates upto its **(2)** class with examples.

2	(a)	Answer the following questions in short:		
		(1)	After the fourth cleavage of eggs how many cells occur ?	
		(2)	How many gonads are there in each side of Amphioxus ?	
		(3)	type of cleavage occurs in fertilized egg of Amphioxus.	
		(4)	In Amphioxus the fertilization is	
	(b)	Ans	wer any one of the following questions:	2
		(1)	Explain ovum of Amphioxus.	
		(2)	Explain spawning in Amphioxus.	
	(c)	Ans	wer any one of the following questions:	3
		(1)	Describe feeding process of Amphioxus.	
		(2)	Draw labelled diagram of external feature of amphioxus.	
	(d)	) Answer any one of the following question:		
		(1)	Describe Gastrulation in Amphioxus.	
		(2)	Explain cleavage in Amphioxus.	
3	(a)	Answer the following questions in short:		4
		(1)	Write examples of complex carbohydrates.	
		(2)	Name the two types of Leucocytes.	
		(3)	Name the inner most layer of stomach wall.	
		(4)	Goblet cells are found in the histological structure of	
	(b)	Answer the following questions:		
		(1)	Explain Neutrophils.	
		(2)	Write function of mammalian liver	

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	(4)	Name the three phase of Menopause.		
	(3)	Define Estrus cycle.		
	(2)	What is the average age of Menopause?		
	(1)	In mammals the first part of oogenesis starts in the		
<b>5</b> (a)		swer the following questions in short:	4	
	(2)	Describe Kutchh desert wild life sanctuary.		
	(1)	Describe the causes of depletion of wild life.		
(d)		swer the following questions:	5	
	(2)	Describe hooves with example.		
	(1)	Describe digital nail and tips.		
(c)		swer the following questions:	3	
(-)	` ,		9	
	(2)	Describe Glaws.  Describe fauna of Gir National park.		
(6)	(1)	Describe Claws.	_	
(b)	Ans	swer the following questions :	2	
	(4)	of ungulate digits.		
	(4)	are enlarged Keratinized plates on the ends		
	(3)	Total area of Gir national park is		
	(2)	Where the Khijadiya bird sanctuary is located?		
4 (a)	Ans (1)	swer the following questions in short :  What is scientific name of Asiatic lion ?	4	
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	(2)	Explain histological structure of Pancreas.		
(d)	(1)	swer the following question :  Explain blood components in brief.	5	
(4)	Λ		_	
	(2)	Explain blood platelets.		
	(1)	Explain digestion in Intestine.		
(c)	Ans	swer the following questions:	3	

(b)	Answer the following question:		
	(1)	Explain Gametogenesis.	
	(2)	Write symptoms of Menopause.	
(c)	Ans	wer the following question:	3
	(1)	Explain the phases of Menopause.	
	(2)	Write causes of Menopause.	
(d)	Answer th following question:		
	(1)	Describe Spermatogenesis in brief.	
	(2)	Explain Oogenesis in brief.	