## 

Seat No. \_\_\_\_

## HO-003-1014020

Second Year B. Sc. (Sem. IV) (W.E.F. 2016) Examination April - 2023 Zoology : Paper - Z - 04 (Old Course)

> Faculty Code : 003 Subject Code : 1014020

## Time : $2\frac{1}{2}$ / Total Marks : 70

## **Instructions** :

- (1) Draw neat and labeled diagram wherever necessary.
- (2) Figures to the right side indicate full marks for the questions.

1	(a)	Write the answers in short :			
		(1)	Under which class, Siren has been classified ?		
		(2)	Archaeopteryx connect Reptiles and class (Fill the blank)		
		(3)	By which name Flightless birds are known?		
		(4)	By which common name Platypus is known.		
	(b)	Writ	e answers in short :	2	
		(1)	What is short classification of Hyla?		
		(2)	Write main salient features of Class Reptile.		
	(c)	Writ	Write answers in short :		
		(1)	Explain main features of Archaeopteryx.		
		(2)	Describe Retitae.		
	(d)	Explain :		5	
		(1)	Draw Classification Chart of Chordate up to class example.	with	
		(2)	Describe Platypus as Connective link.		
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2	(a)	Write the answers in short :	4
		(1) Write any one name of Migratory fish.	
		(2) Name the respiratory organ of Calotes.	
		(3) Write any two names of Poisonous Snake.	
		(4) Name the snake species, which scientifically call as	
		Naja nana.	
	(b)	Write answers in short :	2
		(1) Describe First Aid treatment for Snake bite.	
		(2) Write identification characteristics of Krait.	
	(c)	Write answers in short :	3
		(1) Explain Anatropous migration in fishes.	
		(2) Draw labeled diagram of Male Reproductive system in Calotes.	
	(d)	Explain :	5
		(1) Describe Digestive System of Calotes.	
		(2) Describe differences between poisonous and nonpoisonous snakes.	
3	(a)	Write the answers in short :	4
		(1) What is meaning of the word – 'Isolecithal Egg'.	
		(2) Which type of Cleavage found in Chick Embryo ?	
		<ul><li>(3) Write any two names of Nitrogenous west produced from animal body.</li></ul>	
		(4) Which unit is basic functional unit in Kidney?	
	(b)	Write answers in short :	2
		(1) Describe Hormones of Ovary.	
		(2) Explain any one type of Cleavage.	
	(c)	Write answers in short :	3
		(1) Draw only labeled figure of Nephron.	
		(2) Describe types of Eggs according to Amount of Yolk.	
	(d)	Explain :	5
		(1) Describe physiology of urine formation.	
		(2) Explain about Menopause.	
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4	(a)	Write the answers in short : 4	
		(1) How many Pairs of chromosomes are present in Human	n ?
		(2) Which types are found in Giant Chromosomes ?	
		(3) Which particles are found in Paramecium ?	
		(4) What is full form of PKU ?	
	(b)	Write answers in short :	2
		(1) What is DNA Finger Printing ?	
		(2) Explain Sex Determination in Drosophilla.	
	(c)	Write answers in short :	3
		(1) Describe <u>Alkaptonuria</u> .	
		(2) Explain anyone type of Giant Chromosome.	
	(d)	Explain :	5
		(1) Describe types of Chromosome according to	
		Centromere position.	
		(2) Explain Cytoplasmic Inheritance.	
5	(a)	Write the answers in short :	4
	. ,	(1) By which name formation of Species is known?	
		(2) What is meaning of Homologous organs ?	
		(3) Which Molluscan is producing Perl ?	
		(4) Under which phylum, Prawn has been classified ?	
	(b)	Write answers in short :	2
		(1) Describe Analogous organs.	
		(2) What is Vestigial Organs ? Explain in brief.	
	(c)	Write answers in short :	3
		(1) Explain the Mechanism of Isolation.	
		(2) Describe formation of Pearl.	
	(d)	Explain :	5
		(1) Describe Speciation.	
		(2) Describe Bombay duck fisheries with fishing gears.	