

HR-20

B. Sc. (Sem. II) (W.E.F.-2019) Examination

April – 2023

Zoology: Z-02

(New Course)

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

Instructions:

- (1) Illustrate Figures with neat and clean diagram.
- (2) Figure to right side show full mark of questions.
- 1 (a) Give answers of following questions:

4

- (1) In which Subphylum, Notochord present in head and persist up to the body length?
- (2) Write any two examples of Bony fishes.
- (3) Under which class Skink (Mabuia) has been classified?
- (4) Which Exoskeleton is present in Aves?
- (b) Answer any one out of two:

2

- (1) Write down any four characters of class Aves.
- (2) Classify sea-horse up to its class.
- (c) Answer any one out of two:

3

- (1) Classify Bufo with its main characters.
- (2) Write general characters of class Reptile.
- (d) Answer any one out of two:

5

- (1) Describe salient features of class Mammals.
- (2) Draw classification chart of Chordates upto examples.

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2	(a)	Give answers of following questions:	4
		(1) Write definition of Cleavage.	
		(2) In amphioxus, Mayotomes are found in shape.	
		(3) What is scientific name of Amphioxus?	
		(4) Diameter of ovum of amphioxus is	
	(b)	Answer any one out of two:	2
	()	(1) Describe Early cleavage in Amphioxus.	
		(2) Draw only labelled diagram of Amphioxus Blastula.	
	(c)	Answer any one out of two:	3
		(1) Describe fertilization process in Amphioxus.	
		(2) Explain Endostyle in Amphioxus.	
	(d)	Answer any one out of two:	5
		(1) Explain digestive system in Amphioxus.	
		(2) Describe Gastrulation process in amphioxus.	
3	(a)	Give answers of following questions:	4
		(1) Oxyntic cell are present in	
		(2) Which enzyme is present in Saliva?	
		(3) What is full form of R.B.C. ?	
		(4) In which organ Hepatic cells are present?	
	(b)	Answer any one out of two:	2
		(1) Digestion of Lipid.	
		(2) Write structure and function of W.B.C.	
	(c)	Answer any one out of two:	3
		(1) Describe Absorption of carbohydrate.	
		(2) Draw and label diagram of histological structure of Pancreas.	
	(d)	Answer any one out of two:	5
		(1) Describe digestion in Intestine.	
		(2) Describe histological structure of stomach.	

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4	(a)	 Give answers of following questions: (1) Where the Khijadia Bird Sanctuary is located? (2) Write any two examples of Human Integumentary system (3) What is scientific name of Asiatic Lion? (4) In which class of Chordates, some glands are present in Skin? 	4
	(b)	Answer any one out of two: (1) Write general introduction to wild life. (2) Describe Horns.	2
	(c)	Answer any one out of two: (1) What is difference between National Parks and Sanctuaries? (2) Describe Sweat gland.	3
	(d)	Answer any one out of two: (1) Describe Marine National Park with its flora and fauna. (2) Explain Gir National park.	5
5	(a)	Give answers of following questions: What is meaning of Spermatogenesis? In which animals Estrus cycle is physiological process? From where Progesterone is secreted? What is Average Age-range of Menopause? 	4
	(b)	Answer any one out of two: (1) Describe Spermatogenesis. (2) Which factors are affecting the Estrous cycle?	2
	(c)	Answer any one out of two: (1) Explain short note on Estrus cycle physiology. (2) Which symptoms are found during pre-menopause phase	3
	(d)	Answer any one out of two: (1) Describe main symptoms of Menopause. (2) Explain Oogenesis.	5

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