

RX-003-001641

Seat No.

Third Year B. Sc. (Sem. VI) Examination March - 2019

Z-601 : Zoology

(Functional Anatomy of Chordates & Comparative)
(Old Course)

Faculty Code: 003 Subject Code: 001641

Time : $2\frac{1}{2}$ Hours]

[Total Marks: 70

Instructions: (1) Draw neat and labeled diagram wherever necessary.

- (2) Numbers to the right side indicate full marks of the question.
- 1 Give the answer of following questions:

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- (1) Amphioxus belongs to which class?
- (2) Give any two important characters of tunicata.
- (3) Give the living fossil name
- (4) Which animal is Connecting link the class reptiles and aves.
- (5) Scientific name of Rat.
- (6) Which epidermal gland is found in a tail region of birds?
- (7) Define retrogressive metamorphosis?
- (8) How many air sacs are found in pigeon?
- (9) Which type of caudal Fin Found in Elasmobranch?
- (10) Which veins of Rat is collect blood from the lumber region.

		(11)	Pisces?	
		(12)	Define catadromous migration in fish.	
		(13)	Some birds shows the most familiar migration from north to south and vice versa is known as	
		(14)	Gives two animals name of carnivore mammals.	
		(15)	Diencephalon is the part ofbrain.	
		(16)	Function of Gizzard in birds.	
		(17)	Dental formula of Dog.	
		(18)	Which type of kidney present in birds?	
		(19)	Smallest arteries are connected to smallest veins by is known as	
		(20)	2-chambered single circuit venous hearts are found in	
2	(a)	Writ	e any three out of six:	6
		(1)	Dental formula of Horse and Goat.	
		(2)	Parental care in amphibia. (Direct)	
		(3)	Air bladder of fishes.	
		(4)	Explain order chiroptera.	
		(5)	Explain Mammary gland in brief.	
		(6)	Hibernation in Amphibiam.	
	(b)	Writ	e any three out of six:	9
		(1)	Affinities of dipnoi.	
		(2)	Palate in birds. (any one)	
		(3)	Short note on Marsupials	
		(4)	Types of Migration in birds	
		(5)	Extinct reptiles.	
		(6)	Explain Anadromous migration in fish.	

	(1)	Arterial system of Rat.	
	(2)	Accessory respiratory organ of fishes.	
	(3)	Digestive system of pigeon.	
	(4)	Dentition in mammals according to attachment with gum.	
	(5)	Explain order urochordata, affinities and vertebrates.	
(a)	Write any three out of six:		
	(1)	Explain Neotony in brief.	
	(2)	Aestivation and Amphibia.	
	(3)	Parental care in fishes	
	(4)	Describe order insectivora.	
	(5)	Describe scent gland.	
	(6)	Pectene in pigeon.	
(b)	Write any three out of six:		
	(1)	Structure of pigeon heart.	
	(2)	Brain of Rat. (Dorsal side)	
	(3)	Explain ratitae.	
	(4)	Describe aquatic mammals.	
	(5)	Explain Pouched mammals.	
	(6)	Types of features in Birds.	
(c)	Write any two out of five:		
	(1)	Temporal fossae.	
	(2)	Comparative of heart in Amphibia and mammals.	
	(3)	Comparative account of arotic arch. in Reptiles and Aves.	
	(4)	Comparative account of kidney: Fishes and aves.	
	(5)	Digestive system of rat.	

(c) Write any two out of five:

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