

HAD-003-001641 Seat No. _____

Third Year B. Sc. (Sem. VI) Examination

June / July - 2017 Zoology: Z-601

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

Faculty Code: 003

		Subject Code: 001641
Гim	ie : 2	$(\frac{1}{2} \text{ Hours })$ [Total Marks : 70
Ins	truct	ions: (1) Illustrate your answer with neat and labelled diagram.(2) Figures to the right side indicate full marks of question.
1	Give	e the Answer for following questions:
	(1)	In structure of air bladder the red gland receives blood from artery and empties into the vein.
	(2)	Anadromous migration refers to movement of fishes:
	(3)	Which type of jaw suspension found in dipnoi?
	(4)	type of caudal fin is the characteristic of the majority of higher bony fishes.
	(5)	Siren belongs to class, order & sub order
	(6)	Which type of skull found in living reptiles?
	(7)	Presence of median pineal eye is the characteristic of
	(8)	In pigeon artery carries blood to the wings.
	(9)	How many air sacs are found in pigeon?
	(10)	is the connecting link between reptiles and aves.
	(11)	Give any two example of Group Ratitae.
	(12)	Some birds shows the most familiar migration from north to south and vice versa is known as

	(13)	In Rat, artery carries blood to the iliac and lumber region.			
	(14)	Presence of Tarsal spur in male is the typical character of			
	(15)	Ventral abdominal pouch and epipubic bones is the characteristic of			
	(16)	How many chambers are there in the heart of pises?			
	(17)	Presence of corpus callosum is the characteristic of brain.			
	Which gland is found in male lizard?				
	(19)) In carnivores, last premolars in uppar jaw and first molar in lower jaw may have very sharp cusp & for cracking bones and shearing tendons are called			
	(20)	Bats are included in order			
2	(a)	Write any three out of six:	6		
		(1) Types of fins in fishes.			
		(2) Scent gland and mammary gland.			
		(3) Ratitae.			
		(4) Neoteny.			
		(5) Write a short note on primates.			
		(6) Hybernation and Aestivation in amphibian.			
	(b)	Write any three out of six:	9		
		(1) Parapsid and Diapsid skull.			
		(2) Structure and function of air bladder in fishes.			
		(3) Write a short note on marsupials.			
		(4) Brain of pigeon.			
		(5) Attachment of teeth and dentition of teeth in mammals.			
		(6) Heart in reptiles.			

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		(6)	Sketch & label digestive system of Rat.	
		. •	in vertebrates.	
		(5)	Femoral gland, sebaceous gland and poisons gland	
		(4)	Affinities of Dipnoi.	
		(3)	Write a short note on Monotremata.	
		(2)	Female urinogenital system of Pigeon.	
		(1)	Migration in fishes.	
	(b)	Writ	te any three out of six:	9
		(6)	Succession of teeth in vertebrates.	
		(5)	Write a short note on Chiroptera.	
		(4)	Aortic arches in Reptiles.	
		(3)	Parental care of Amphibia with any two examples.	
		(2)	Archaeopteryx.	
		(1)	Types of air bladder in fishes.	
3	(a)	Writ	te any three out of six:	6
		(5)	Sphenodon as a living fossil & affinities of it.	
		(4)	Compare the Aortic arches of Pisces, Amphibians and Aves.	
		(3)	Digestive system of Pigeon.	
		(2)	Venous system of Rat.	
			describe the brain of pisces.	
		(1)	Origin & evolution of brain in vertebrates and	

(c) Write any **two** out of five:

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- (1) Origin & evolution of heart in vertebrates and describe the heart of Mammals.
- (2) Arterial system of Rat.
- (3) Types of teeth in mammals and give the dental formula of Got, Horse, Dog.
- (4) Migration in Birds.
- (5) Affinities of Urochordata.

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