

## UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2022

## **CC8-ZOOLOGY**

## COMPARATIVE ANATOMY OF VERTEBRATES

Time	Allotted: 2 Hours	Full Marks: 40
The figures in the margin indicate full marks.		
1.	Answer any <i>five</i> questions from the following:	$1\times5=5$
(a	) What is meibomian gland and where it is located?	
(b	) What do you mean by opisthonephric kidney?	
(c	) What do you mean by Carnassial teeth?	
(d	Name four chambers of ruminant stomach.	
(e	) Define amphicoelous vertebra with example.	
(f	Which aortic arch becomes the systemic arch in birds?	
(g	) What is aspiration?	
(h	Oviduct in vertebrates is modified	
	(i) Urinary duct, (ii) Inguinal Canal, (iii) Wolffian duct, (iv) Mullerian duct	
2.	Answer any <i>three</i> questions from the following:	$5 \times 3 = 15$
(a	Write a note on double respiration in bird with suitable diagram.	
(b	Write short note on different types of sensory receptors in mammals.	
(c	) State the evolutionary significance of aortic arches in tetrapods.	
(d	Compare the forebrain of reptiles and mammals with suitable diagram.	
(e	) Write a short note on mesonephros type of kidney.	
3.	Answer any <i>two</i> questions from the following:	$10 \times 2 = 20$
(a	Write a comparative anatomy of stomach in vertebrates with example.	
(b	Describe the structure and function of different derivatives of integument in mammals.	1
(c	) Give a comparative account of heart structures in different classes o vertebrates with proper illustrations.	f
(d	What is accessory respiratory organ? Give an account of accessory respiratory organs of fish. Add a note on gas bladder in fish.	1+6+3

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