T(4th Sm.)-Zoology-H/CC-8/CBCS

2021

ZOOLOGY — HONOURS

Paper : CC-8

(Comparative Anatomy of Vertebrates)

Full Marks : 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer any ten questions.

1.	Define Hypsodont and Lophodont dentition. Write a note on diastema with its significance.	3+2
2.	Draw and describe the structure of a holobranch of a bony fish.	4+1
3.	Draw and describe the modification of aortic arches in mammals.	2+3
4.	What is mesonephros? State the differences between Wolffian and Mullerian duct.	3+2
5.	Write a brief note on autostylic jaw suspension.	5
6.	Name the V and IX cranial nerve and comment of their distribution in fishes.	2+3
7.	Give an account of the histological organization of mammalian skin with a labelled diagram.	3+2
8.	Draw and describe ultrastructure of cochlea in mammals.	5
9.	Describe the structure of typical flight feather in bird with suitable diagram.	5
10.	Comment on the fermentation process in Ruminant Stomach.	5
11.	Distinguish between (any two) :	2½×2
	(a) Foramen magnum and Foramen Monro	
	(b) Hemibranch and Holobranch	
	(c) Corpus callosum and Corpus striatum.	
12.	Mention the structural peculiarities of a typical reptilian heart.	2+3
13.	Distinguish between Thecodont and Acrodont dentition with suitable examples.	5
14.	Draw and describe different air sacs in Columba sp.	5
15.	Comment on the functional modifications of cerebellum in Vertebrates.	5