## 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):  (a) Foramen magnum and Foramen Monro  (b) Hemibranch and Holobranch  (c) Corpus callosum and Corpus striatum.	2½×2
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