

PC- 385 CV-19

M.Sc. Zoology (III SEM.)

Examination Dec-2020

Compulsory

Paper-I

COMPARTATIVE ANATOMY OF VERTEBRATES

Time: Three Hours]

[Maximum Marks: 80

[Minimum Pass Marks: 29

Note: Answer from Both the Section as Directed. The figures in the right hand margin indicate marks.

Section -A

1. Answer the following questions: 1X10
- (a) In Which Chordate animal "Scroll Valve" is found.
 - (b) Write name of sub-layers of Epidermis of mammalia.
 - (c) Write example of Venous heart.
 - (d) Write order of Penguin.
 - (e) "Tapetum lucidum" is found in eye of which type of animal.
 - (f) Which bone having "Obturator foramen."?
 - (g) Write name of fishes possess "Operculum Gill".
 - (h) Which structure of Brain makes bird meritorious.
 - (i) How many muscles are responsible to move eye.
 - (j) Who describe first " Organ of corti."?
2. Answer the following questions: 2X5
- a. Describe characters and examples of order ophidia.
 - b. Describe structure of feather.
 - c. Describe structure and functions of crop.
 - d. Thermoreceptors in fishes. (e) Structure of mammalian pelvic girdle.

Sections-B

Answer all questions:

Unit-I

3. Give an detail account on origin of chordates. 15x4

OR

Write main characters of phylum reptilian and classify upto order with giving suitable examples.

Unit-II

4. Describe the evolution of Aortic arches in Chordates.

OR

Describe basic Structure of Vertebrate integument and give an brief account of development of its derivatives.

Unit-III

5. Give an comparative account of Respiratory organs of Vertebrates.

OR

Give an comparative account of pectoral girdle of Amphibia, Reptilia and Mammalia.

Unit-IV

6. Give an comparative account of brain of reptilia, Birds and Mammals.

OR

Compare Urinogenital System of reptile birds and Mammals.