

4 SEM TDC ZOOH (CBCS) C 8

2025

(May/June)

ZOOLOGY

(Core)



Paper : C-8

(Comparative Anatomy of Vertebrates)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. (a) Fill in the blanks (any five) : 1×5=5

- (i) In herbivorous animal, the intestine is _____ in comparison to carnivorous animal.
- (ii) In mammals, hooves are derived from _____.
- (iii) The heart of bird is _____ chambered.
- (iv) All amniote vertebrates have _____ kidney.

(v) In mammals, _____ pairs of cranial nerves are found.

(vi) The dental formula of human is _____.

(b) Write short notes on the following : $4 \times 2 = 8$

(i) Spinal cord or Cranial nerves

(ii) Visual receptors or Auditory receptors in man



2. Give a comparative account of either epidermal or dermal derivatives of vertebrates.

7

3. Write briefly the comparison of either pectoral girdle or pelvic girdle of reptiles and birds.

7

4. What is dentition? Write about the digestive glands and their secretions in mammals. $2+5=7$

Or

Give a comparative account of digestive system of fish and bird.

7

5. Describe the accessory respiratory organs in fishes.

7

Or

Give a comparative account of lungs of fish and mammals.

6. Answer *either* (a) and (b) or (c) and (d) from the following : $6+6=12$

(a) Evolution of urinogenital duct

(b) Evolution of heart

(c) Types of mammalian uteri

(d) Evolution of aortic arches
