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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.

(2)

(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.

(3)

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
