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4 SEM TDC ZOOH (CBCS) C 8

2023

(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. Fill in the blanks with appropriate word(s) :
1×5=5

(a) The name of the integumentary gland secreting tear is ____ gland.

(b) Ribs are a part of ____ skeleton.

(c) Smallest arteries are connected to smallest veins by ____.

(2)

(d) Oviduct in vertebrates is modified _____ duct.

(e) A mass of cell bodies (perikaryon) within the gray matter of brain or spinal cord is _____.

2. Write notes on any *two* of the following :
4×2=8

(a) Auditory receptors in man

(b) Spinal cord

(c) Metanephros

3. Write about different types of epidermal glands found in vertebrates. 5

Or

Compare the epidermis of amphibia and mammals with suitable diagrams.

4. Describe the different types of jaw suspensorium in vertebrates. 8

Or

What are visceral arches? Give an account of modifications of visceral arches in tetrapoda.

2+6=8

(3)

5. Give a comparative account of digestive system of reptiles and birds. 6

Or

Write an account on the cranial nerves of mammals. 6

6. What are air sacs? What are its types? Mention their functions. 1+2+4=7

Or

Compare lung of reptiles and birds. 7

7. Give a comparative account of aortic arches in amphibia and reptilia. 7

8. What are cranial nerves? Prepare a note on autonomic nervous system. 2+5=7

Or

Write about evolution of urinogenital duct in vertebrates. 7
