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**4 SEM TDC ZOOH (CBCS) C 8**

**2024**

( 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 :

1×5=5

- (a) The accessory respiratory organs present in the mudskipper fish are known as \_\_\_\_\_.
- (b) Ovulation is stimulated by \_\_\_\_\_ hormone.
- (c) Nocturnal species of birds have high density of \_\_\_\_\_ cell which function well in poor light.



( 2 )

(d) Placoid scales are found in \_\_\_\_\_ fish.

(e) Heart is absent in \_\_\_\_\_.

2. Write notes on any *two* of the following :

4×2=8

(a) Digestive system of birds

(b) Dentition in mammals

(c) Accessory respiratory organ in fish

3. Describe briefly on the structure of skin in different classes of vertebrates.

8

Or

Compare between the epidermis of Amphibia and Reptilia with suitable diagram.

4. Describe the structure of skull in different vertebrates.

8

Or

Write a brief account of basic structure of vertebral column of human.

5. What is lymph? Describe about the lymphatic system in mammals. Add a note on spleen.

2+4+2=8

( 3 )

Or

Give a comparative account of heart in fishes, amphibia and birds.

8

6. Compare the female genital system of a bird with that of a mammal.

8

Or

Describe about the type of uteri found in different groups of mammals.

7. Compare between the brain of fish and amphibia.

8

Or

What is receptor? Write about the auditory system in human.

2+6=8

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