

## 2022/TDC (CBCS)/EVEN/SEM/ ZOOHCC-401T/088

TDC (CBCS) Even Semester Exam., 2022

and the shared in which is ZOOLOGY to a constant of the

(Honours)

(4th Semester)

Course No.: ZOOHCC-401T

( Comparative Anatomy of Vibrants )

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

## SECTION—A

Answer any ten of the following questions: 2×10=20

- 1. What is cornification? Explain briefly.
- Differentiate between monocondylic and dicondylic skulls with examples.
- 3. What is meant by visceral arches? How many visceral arches are found in mammals?

(Turn Over)

- 4. What is gastric gland? Name the types of cells and their secretions in the gastric juice.
- 5. How many air sacs are associated with the respiratory system of modern birds? What is syrinx?
- 6. What is meant by accessory respiratory organs in fishes? Explain briefly.
- 7. What is pericardium? Name two additional chambers in amphibian heart.
- 8. What is meant by portal system? Explain briefly.
- 9. What are the types of uteri in mammals?
- 10. What is meninges? Name the membranous layers of meninges.
- 11. Differentiate between cerebrum and cerebellum.
- 12. What is spinal cord? How many pairs of spinal nerves are found in human?

(3)

- 13. Classify receptors in higher vertebrates.
- What are the functional significances of ear?
- 15. What is meant by mechanoreceptors? Cite some examples of cutaneous receptors.

## SECTION-B

Answer any *five* of the following questions: 6×5=30

- 16. Discuss various epidermal derivatives of the integument in vertebrates.
- 17. Give a comparative account of girdle bones of Reptilia, Aves and Mammalia.
- 18. Name the salivary glands of mammals. What are the uses of saliva? Describe the structure of alimentary canal of mammals with labelled 2+4=6diagram.
- 19. Describe the structure of lungs in carinate birds and the mechanism of double 3+3=6 respiration in them.
- 20. Give a comparative account of aortic arches in the vertebrate series with necessary diagrams.

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(Turn Over)



- 21. Discuss the modifications of uriniferous tubules and evolution of kidney in vertebrate series.
- 22. Give a comparative account of the brain of birds and mammals.
- 23. What are cranium and cranial nerves?

  Discuss cranial nerves of mammals.
- **24.** Describe the structure of human eye with necessary diagram.
- **25.** Write short notes on gustatoreceptor of man and lateral line system in fishes. 3+3=6

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