

Reg. No. :

Name :

IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 Admission Onwards)
CORE COURSE IN ZOOLOGY
4B 04 ZLG : Chordata – II and Comparative Anatomy

Max. Marks : 40

Time : 3 Hours

Instruction : Give illustrations and figures wherever necessary.

- I. Essay questions (Each question carries 8 marks). Answer any two :
1. Write an essay on flight adaptations in birds.
 2. Explain the structure and working of heart in rabbit.
 3. Write an account on the dentition in mammals.
 4. Give a comparative account on the aortic arches in all the five classes of vertebrates. (2×8=16)
- II. Short essay (Each question carries 4 marks). Answer any two.
5. Give a brief account on any four types of vertebrae based on the shape of centrum.
 6. Explain the evolutionary significance of Archaeopteryx.
 7. List the adaptations of Chiroptera for an aerial life. (2×4=8)
- III. Short answer questions. (Each question carries 2 marks). Answer any six.
8. Write about a bird, which was once thought extinct, but later rediscovered.
 9. Define double circulation. Give example.
 10. Cud chewing mammals.
 11. Write on diaphragm.
 12. What is retina mirabilia ?
 13. Name the glands of eye in a rabbit.
 14. Cristae and maculae (6×2=12)
 15. Synsacrum. P.T.O.

IV. Multiple choice questions. (Each question carries 0.5 marks). Answer all.

16. Wish bone or Merry thought is the other name for _____
(Synsacrum, Furcula, pygidium, pygostyle)
17. _____ is the pace maker of mammalian heart.
(SA node, AV node, Purkinje fiber, Bundle of His)
18. _____ is a flightless bird.
(Struthio, stork, spoon bill, ibis)
19. _____ is our national aquatic animal.
(Dolphin, Whale, Dugong, Porpoise)
20. _____ is the part of the ear functioning in hearing.
(utricle, semi circular canals, sacculus, cochlea)
21. Which one belongs to Artiodactyla ?
(zebra, pig, tapir, rhinoceros)
22. _____ aortic arch and _____ oviduct are absent in birds.
(left and left, left and right, right and right, right and left)
23. Tusks of elephants are modified _____
(incisors, canines, premolars, molars) (8×0.5=4)