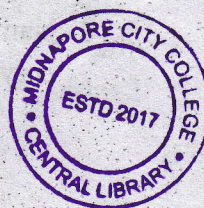


Total Pages : 3

B.Sc./4th Sem (H)/ZOO/23(CBCS)

2023

4th Semester Examination
ZOOLOGY (Honours)



Paper : C 9-T

(Animal Physiology : Life Sustaining System)

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. State the function of chylomicrons.
2. Express vital capacity in terms of volumes.
3. What is Bombay phenotype?
4. Differentiate between Stenohaline and Euryhaline.
5. What is JGA?
6. Define Haemostasis.

P.T.O.

(2)



7. What is crypts of Lieberkuhn?
8. Name one protein and one nucleic acid digesting enzymes.

1+1

Group - B

Answer any *four* questions : 5×4=20

9. State the role of TMAO. Briefly discuss osmoregulatory process of fresh water fish in high Salt environment. 2+3
10. Define thermogenesis. Comment on the strategies applied by endothermic animals to retain heat in their body. 1+4
11. Briefly discuss the Counter Current Mechanism to concentrate urine in mammalian kidney. 5
12. What is chloride shift? Briefly explain Bohr effect. 2+3
13. Write a short note on digestion of protein in different parts of GI tract. 5
14. Elaborate the term Inotropism, Chronotropism. 2½+2½

Group - C

Answer any *one* question : 10×1=10

15. State the significance of fibrinolytic system. Discuss the different events of ventricular cycle. Show the relationship of cardiac output with stroke volume. What is Haldane effect? 2+4+2+2

(3)



16. Comment on the absorption of monosaccharide by small intestine. Describe the structure and function of filtration membrane of nephron. Discuss carbon monoxide poisoning. 3+(3+2)+2