

2021
M.Sc.
First Semester
CORE – 02
ZOOLOGY
Course Code: MZOC 1.21
(Animal Physiology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Describe the different types of digestive hormones and enzymes of vertebrates. 14
2. Describe the process of digestion of carbohydrates. Add a note on the process of absorption of fats. 9 + 5 = 14

UNIT-II

3. Define membrane potential. How does ions carry current? Describe the structure of cation permeable channels. 2 + 4 + 8 = 14
4. Explain the different types of synaptic transmission 14

UNIT-III

5. Define respiratory acidosis. Explain how respiration is regulated. Add a note on respiratory function of blood. 2 + 7 + 5 = 14
6. What is respiratory buffering? Explain Bohr effect and Root effect. 2 + 6 + 6 = 14

UNIT-IV

7. Define acid–base balance. Explain counter current mechanism of urine formation. 2 + 12 = 14

8. Describe osmoregulation in aquatic animals. Add a note on neural regulation of body temperature. $10 + 4 = 14$

UNIT-V

9. Define haemopoiesis. Explain the different pathways of blood coagulation. $2 + 12 = 14$
10. Describe neuromuscular junction. Explain how contraction of muscle is regulated. $7 + 7 = 14$
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