

2022
B.A./B.Sc.
Fourth Semester
CORE – 9
ZOOLOGY
Course Code: ZOC 4.21
(Animal Physiology: Life Sustaining Systems)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. (a) Write the functions of gastrointestinal tract and their associated glands. 7
(b) Explain how carbohydrates are absorbed in the body of the animals. 7
2. Discuss in detail about the hormonal control of secretion of enzymes in gastrointestinal tract. 14

UNIT-II

3. Write notes on: 7×2=14
(a) Pulmonary ventilation
(b) Mechanism of respiration
4. (a) Explain the different types of respiratory pigments in animals. 7
(b) Carbon monoxide poisoning. 7

UNIT-III

5. Describe the mechanism of urine formation. 14

6. Write notes on: 7×2=14
(a) Regulation of acid base balance
(b) The structure of kidney with neat labelled diagram

UNIT-IV

7. Explain the different components of blood and their functions. 14
8. Write notes on: 7×2=14
(a) ABO blood group
(b) Blood clotting system

UNIT-V

9. Explain the origin and conduction of nerve impulses. 14
10. Write notes on: 7×2=14
(a) Electrocardiogram
(b) Blood pressure
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