

243637190026

23BZO402

UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR
AT THE END OF FOURTH SEMESTER
ZOOLOGY-ANIMAL PHYSIOLOGY: LIFE SUSTAINING SYSTEMS
(B.Sc. HONOURS-MAJOR)
(w.e.f. Admitted Batch 2023-24)

Time: 3 Hours

Maximum: 70 Marks

Section-A

Answer any Five Questions.

5x4=20

1. Write a note on the Vitamins.
2. What are respiratory volumes and capacities?
3. Explain the structure of nephron.
4. What is synaptic transmission?
5. Define cardiac cycle.
6. Write a short note on mechanical digestion of food.
7. Explain transport of oxygen in blood.
8. What is blood pressure?

Section-B

Answer All Questions.

5x10=50

9. a) Describe the structure of gastrointestinal tract and associated glands.
(Or)
b) Explain the process of digestion and absorption of carbohydrates, proteins and lipids.
10. a) Explain the mechanism of respiration.
(Or)
b) Describe the factors affecting dissociation curves.
11. a) Describe the structure of kidney and mechanism of urine formation.
(Or)
b) Explain the regulation of water balance and acid-base balance.
12. a) Explain the structure of neuron and nerve impulse transmission.
(Or)
b) Describe the ultra structure of muscle and molecular basis of muscle contraction.
13. a) Explain the structure of mammalian heart.
(Or)
b) Describe the cardiac cycle, cardiac output and regulation of heart rate.
