

2024

(FYUGP)

(5th Semester)

ZOOLOGY

(Major)

Paper Code : ZOO/C9 (T)

(Physiology : Life Sustaining Systems)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

**The figures in the margin indicate full marks
for the questions**

1. Write notes on absorption of the following :

(a) Carbohydrates

(b) Lipids

Or

**What are enzymes? Mention and explain the
various enzymes that help in the digestion in
the gastrointestinal tract.**

2. Give an account on the mechanism of breathing. Add a note on the transport of CO_2 in the blood. 10+5=15

Or

Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Respiratory pigments
- (b) Oxygen dissociation curves

3. With proper diagram, explain the structure of kidney and elaborate the mechanism of urine formation. 5+10=15

Or

Why is osmoregulation necessary? Explain the different types of osmoregulation in animals. 3+12=15

4. Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Composition of blood and its functions
- (b) Haemostasis

Or

Give a detailed account on the blood group system in humans. 15

(3)

5. How is blood pressure determined? Explain blood pressure and its regulation. $3+12=15$

Or

Write notes on the following : $7\frac{1}{2}\times 2=15$

- (a) Electrocardiogram
- (b) Cardiac cycle

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