

Fifth Semester B. Sc. Examination

ZOOLOGY

Paper – I

(General Mammalian Physiology)

Time : Three Hours]

[Max. Marks : 50

N. B. : (1) All questions are compulsory.
 (2) All questions carry equal marks.
 (3) Illustrate your answers with suitable diagrams.

1. Classify enzymes giving suitable examples. 10

OR

Write short notes on :—

(A) Effect of pH and temperature on enzyme activity. 5

(B) Lock and key theory of enzymes. 5

2. Name various gastrointestinal hormone and describe mode of their action. 10

OR

Write notes on :—

(A) Structure and functions of pancreas. 5

(B) Sources, deficiency and diseases of Vitamin C. 5

3. Describe mechanism of transport of CO_2 and Oxygen. 10

OR

Write short notes on :—

(A) Hemoglobin. 5

(B) Effects of smoking on health. 5

4. Describe mechanism of blood coagulation. 10

OR

Write short notes on :—

(A) Composition and functions of blood. 5

(B) Blood pressure. 5

5. Write **four** or **five** lines on the following (Any **Ten**) :—

(i) Coenzyme
 (ii) Oxidoreductase
 (iii) Effect of substrate concentration on enzyme
 (iv) Salivary glands
 (v) Digestion of proteins
 (vi) Vitamin K
 (vii) Respiratory disorders
 (viii) Inspiration
 (ix) Haemoglobin
 (x) Intrinsic and extrinsic factors
 (xi) Composition of blood
 (xii) Atrial cycle.

$10 \times 1 = 10$