

TKN/KS/16–5891

**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<sub>2</sub> and Oxygen. 10

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Contd.

**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. 10x1=10

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