



NTK/KW/15-5891

**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. Write an essay on general properties of enzymes. 10

**OR**

Write short notes on :—

- (A) Classification of enzymes. 5  
(B) Factors affecting enzyme activity. 5

2. Write an essay on structure and functions of digestive glands. 10

**OR**

Write notes on :—

- (A) Gastrointestinal hormones. 5  
(B) Digestion and absorption of carbohydrates and proteins. 5

3. Describe in detail mechanism of respiration. 10

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Contd.



OR

Write notes on :—

(A) Types, distribution and properties of respiratory pigments. 5

(B) Respiratory disorders. 5

4. Describe cardiac cycle. 10

OR

Write notes on :—

(A) Mechanism of blood coagulation. 5

(B) ECG. 5

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

(i) Hydrolase.

(ii) Effect of temperature on enzyme activity.

(iii) Chemical nature of enzyme.

(iv) Functions of liver.

(v) Gastrin.

(vi) Deficiency of vitamin A.

(vii) Transport of oxygen.

(viii) Effects of smoking.

(ix) Haemoglobin.

(x) Functions of blood.

(xi) Blood pressure.

(xii) Pacemaker. 1x10