

**Bachelor of Science (B.Sc.) Semester-V (C.B.S.) Examination**

**ZOOLOGY**

**Paper—1**

**(General Mammalian Physiology—I)**

Time : Three Hours]

[Maximum Marks : 50]

**N.B. :—** (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Draw well labelled diagrams wherever necessary.

1. Write an essay on factors affecting enzyme activity. 10

**OR**

Write short notes on :—

(A) Chemical nature of Enzymes.

5

(B) Enzyme substrate interaction.

5

2. Give an account of digestion and absorption of carbohydrates. 10

**OR**

Write short notes on :—

(A) Structure and function of liver.

5

(B) Gastrointestinal hormones.

5

3. Give an account on transport of  $O_2$  and  $CO_2$ . 10

**OR**

Write short notes on :—

(A) Mechanism of Breathing.

5

(B) Respiratory disorders.

5

4. Give an account on Blood Clotting mechanism. 10

**OR**

Write short notes on :-

(A) Composition of Blood. 5  
(B) Cardiac cycle. 5

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

(i) Ribozyme  
(ii) Allosteric enzymes  
(iii) Irreversible inhibitors  
(iv) Brunner's gland  
(v) Succus entericus  
(vi) Niacin  
(vii) Haemoerythrin  
(viii) Bohr effect  
(ix) Harmful effects of Smoking  
(x) Rh factor  
(xi) Systole  
(xii) Sphygmomanometer. 1×10=10