

B.Sc. (Part-III) (With Credits)-Regular-Semester 2012 Sem V  
**B.Sc.3537 - Zoology Paper-I (General Mammalian Physiology-I)**

P. Pages : 2

Time : Three Hours



**GUG/S/18/3378**

Max. Marks : 50

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- Notes : 1. All questions are compulsory.  
2. All questions carry equal marks.  
3. Draw well labelled diagram wherever necessary.

1. Describe the chemical nature of enzyme. **10**

**OR**

- a) Digestion and absorption of lipid.  
b) Gastric digestion.

2. Explain the mechanism of O<sub>2</sub> and CO<sub>2</sub> transport. **10**

**OR**

- a) Composition of blood.  
b) Cardiac cycle.

3. Attempt the following. **10**

- a) General properties of enzyme.  
b) Islets of Langerhans.  
c) Properties of respiratory pigment.  
d) Mean pressure.

**OR**

- e) Transferases  
f) Control of saliva secretion.  
g) Lung Cancer  
h) Electrocardiogram

4. Attempt the following. **10**

- a) Lyases  
b) Deficiency of Vit 'A'

- c) Respiratory capacity
- d) Factors affecting blood pressure

**OR**

- e) Enzyme substrate concentrations
- f) Biotin
- g) Intrapulmonary pressure.
- h) Extrinsic factors of blood coagulation.

**5. Write 4-5 lines on the followings any ten.**

**10**

- i) Antienzyme
- ii) Metallo-enzyme
- iii) Ligase
- iv) Succus-entericus
- v) Riboflavin
- vi) Parietal cell
- vii) Asphyxia.
- viii) Bronchitis
- ix) Influenza
- x) Fibrinogen
- xi) Diastole
- xii) Serum.

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