

Bachelor of Science (B.Sc.)-III Fifth Semester (Old)
B.Sc. 3537 - Zoology Paper-I (General Mammalian Physiology-I)

P. Pages : 2

Time : Three Hours



GUG/W/18/1324

Max. Marks : 50

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

1. Write in detail the classification of enzymes. 10

OR

a) Carbohydrate digestion. 5

b) Fat soluble vitamins. 5

2. Explain the types and functions of respiratory pigments. 10

OR

a) Blood groups. 5

b) Composition of blood. 5

3. Attempt the following. 2½x4

a) Factors influencing enzyme activity.

b) Salivary glands.

c) CO₂ transport.

d) Extrinsic pathway of blood clotting.

OR

e) Specificity of enzymes. 2½x4

f) Structure of gastric gland.

g) Effect of smoking.

h) Blood pressure.

4. Attempt the following. 10

a) Chemical properties of enzyme.

b) Vitamin 'C'.

- c) Asthma.
- d) Sequences of cardiac cycle.

OR

- e) General properties of enzymes.
- f) Gastric hormone.
- g) Electrocardiogram.
- h) Intrinsic factor of blood clotting.

2½x4

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

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|---------------------------|----------------------|
| i) Proenzyme. | ii) Bio-catalyst. |
| iii) Prosthetic group. | iv) Brunner's gland. |
| v) Bilirubin. | vi) Cholecystokinin. |
| vii) Aerobic respiration. | viii) Air Sac. |
| ix) Oxyhaemoglobin. | x) Bundle of His. |
| xi) Heparin. | xii) S.A. Node. |

1x10
