

**B.Sc. Semester III Zoology (Hons.)**

**1<sup>st</sup> Internal Examination, 2021**

**Paper- C-5 (Mammalian Physiology)**

**FM- 15 marks**

Answer any three questions:

- Q1. Describe the mechanism of digestion of proteins. (05)
- Q2. Give a detail account on mechanism of absorption of carbohydrates.(05)
- Q3. What is respiration? Describe the mechanism & regulation of breathing.  
(05)
- Q4. Describe the structure and physiology of kidney. (05)
- Q5. Comment on any two: (2.5x2=05)
- a) Blood clotting & its factors
  - b) Blood groups
  - c) Blood & its Composition

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**Paper- C-6 (Biochemistry)**

**FM- 15 marks**

Answer any three questions:

Q1. Give a detail account on the structure & classification of amino acids.

Also mention its properties.

(05)

Q2. Define Enzyme. Write about the classification & its general properties.

(05)

Q3. Describe the metabolic pathway of Glycolysis. (05)

Q4. Give a detail account on mechanism of enzyme actions.

(05)

Q5. Write about the structural organization & conformation of proteins. (05)

Q6. Write short notes on any two: (2.5x2=05)

a) Watson & Crick Model

b) m- RNA

c) t- RNA

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**Paper- C-7 (Endocrinology)**

**FM- 15 marks**

Answer any three questions:

Q1. Define Hormone. Describe the mechanism of hormone actions. (05)

Q2. Describe the structure & function of Pituitary gland. (05)

Q3. Write about the major hormones of adrenal gland and its significance.(05)

Q4. Write about the major hormones of thyroid gland and its related disorders.  
(05)

Q5. Comment on: (2.5x2=05)

a) Gastrin

b) CCK

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**Paper- P3 (Practical)**

**FM- 15 marks**

Answer all the questions:

- Q1. Write the principle & procedure of preparation of haemin crystal.  
(02)
- Q2. Write the principle & mechanism of Sphygmomanometer for blood pressure.(2.5)

Q3. Write the principle & procedure of quantitative estimation of glucose from a sample.

(2.5)

Q4. Comment on:

(2x4=08)

a) T.S of Kidney

b) T.S of Stomach

c) T.S of Islets of Langerhans

d) T.S of Ovary