

Exam. Code : 103204

Subject Code : 1308

B.A./B.Sc. 4<sup>th</sup> Semester

## ZOOLOGY

Paper—Zoo—IV A (Biochemistry)

Time Allowed—3 Hours]

[Maximum Marks—35

**Note** :— There are **NINE** questions in all. **FIVE** questions are to be attempted. Question No. **I** is compulsory. Candidates are required to attempt **FOUR** questions, **ONE** from each unit. All questions carry equal marks (7 marks each).

I. Compulsory questions, explain briefly the following :

(i) Optical isomerism

(ii) Nucleotides

(iii) Metalloproteins

(iv) Gluconeogenesis

(v) Co-enzyme

(vi) Decarboxylation

(vii) Hydrolysis of proteins.

7×1=7

## UNIT—I

II. Give the classification and functions of carbohydrates.

7

III. Write notes on the functions of :

(a) Lipids

(b) Proteins.

7

**UNIT—II**

- IV. Give an account of Ketone bodies. 7
- V. Write short note on enzyme action and factors affecting the enzyme activity. 7

**UNIT—III**

- VI. Describe TCA cycle. 7
- VII. What is oxidative phosphorylation ? Discuss in detail. 7

**UNIT—IV**

- VIII. Describe Ornithine cycle. 7
- IX. Write notes on :
- (a) Transamination
  - (b) Oxidative deamination. 7