

Exam. Code : 103204

Subject Code : 1357

B.A./B.Sc. Semester—IV

ZOOLOGY

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.

I. Compulsory question. Explain briefly the following :

- (i) β -oxidation
- (ii) Proteins
- (iii) Enzyme
- (iv) Glycolysis
- (v) Ornithine Cycle
- (vi) Gluconeogenesis
- (vii) Decarboxylation

7×1=7

UNIT—I

- II. What is the scope of biochemistry ? 7
- III. Classify lipids and describe their functions. 7

UNIT—II

- IV. Discuss the nature and classification of coenzymes. 7
- V. Write a detailed account on Ketosis. 7

UNIT—III

- VI. What do you know about Embden Meyerhof pathway ? 7
- VII. Discuss role of TCA cycle in carbohydrate metabolism. 7

UNIT—IV

- VIII. What do you understand by amino-acid metabolism ? 7
- IX. Differentiate between deamination and transamination. 7