

Exam. Code : 103204

Subject Code : 1362

B.A./B.Sc. Semester-IV

ZOOLOGY ZOO-IV-A (Biochemistry)

Time Allowed—3 Hours]

[Max. Marks—35

Note :— There are **nine (9)** questions in all. **Five** questions are to be attempted. Question No. 1 is compulsory. Candidates are required to attempt **four** questions, **one** from each Unit. All questions carry equal marks (7 marks each).

I. Compulsory Question. Explain briefly the following :

- (i) Ketosis
- (ii) Nucleic acids
- (iii) TCA
- (iv) Glycogenolysis
- (v) Oxidative deamination
- (vi) Coenzyme
- (vii) Lipids.

7×1=7

UNIT-I

II. Classify carbohydrates along with their functions. 7

III. What do you know about the molecular structure and function of hemoglobin. 7

UNIT-II

IV. Discuss β -oxidation of fatty acids. 7

V. Explain the nature and classification of enzymes. 7

UNIT-III

VI. Describe the Hexose Monophosphate Shunt. 7

VII. Write a detailed account on gluconeogenesis. 7

UNIT-IV

VIII. What is oxidative phosphorylation? 7

IX. Discuss hydrolysis of proteins. 7