- 6. Discuss the classification of enzymes in detail with example of each class.
- 7. Derive Michaelis Menton equation.
- 8. (a) What are isozymes? What is their importance?
 - (b) What is reversible enzyme inhibition?

Exam. Code: 107402 Subject Code: 1748

B.Sc. (Bio Technology) 2nd Semester BIOCHEMISTRY-II (Bioenergetics and Enzymology) Paper—BTL-153

Time Allowed—2 Hours] [Maximum Marks—40

Note:—There are *eight* questions of equal marks.

Candidates are required to attempt any

1. (a) Define metabolism. Differentiate between catabolism and anabolism.

four questions.

- (b) What is free energy? How it regulates metabolism?
- 2. Discuss the characteristics of metabolic pathways in detail.
- 3. What are energy rich metabolites? Discuss the structure and metabolic roles of one energy rich metabolism in detail.
- 4. Discuss different experimental methods for studying metabolism in detail.
- 5. (a) What are co-factors, co-enzymes and prosthetic groups? Give example of each.

1

(b) Discuss acid-base catalysis in detail.