SEMESTER – III & IV

CORE BIOCHEMISTRY PRACTICAL - III

Instructional Hrs: 90 Hrs. Sub. Code: 17BCUCP03

Max. Marks: CIA -40; ESE -60 Credits: 4

I. ENZYME KINETICS

- 1. Preparation of Buffer solution Phosphate and citrate buffer.
- 2. Determination of pH of buffer solution using pH meter.

A. TITRIMETRY

- 1. Effect of pH on the activity of Catalase.
- 2. Effect of substrate concentration on the activity of Catalase.
- 3. Effect of temperature on the activity of Catalase.
- 4. Effect of enzyme concentration on the activity of Catalase.

B. COLORIMETRY/SRECTROPHOTOMETRY

- 1. Effect of pH on the activity of Acid phosphatase.
- 2. Effect of substrate concentration on the activity of Acid phosphatase.
- 3. Effect of temperature on the activity of Acid phosphatase.
- 4. Effect of enzyme concentration on the activity of Acid phosphatase.
- 5. Effect of pH on the activity of Salivary amylase.
- 6. Effect of substrate concentration on the activity of Salivary amylase.
- 7. Effect of temperature on the activity of Salivary amylase.
- 8. Effect of enzyme concentration on the activity of Salivary amylase.

II. GROUP EXPERIMENTS

- 1. Circular chromatography (Amino acids)
- 2. TLC (Lipids)
- 3. Phytochemical analysis of plant extract.

III. KIT METHOD (GROUP EXPERIMENTS)

1. SGOT 2. SGPT 3. ALP

DISTRIBUTION OF MARKS

Internal evaluation: 40 marks External evaluation: 60 marks a) CIA : 20 marks : 25 marks a) Analysis I b) Model : 15 marks b) Analysis II : 25 marks : 7 marks c) Record : 05 marks c) Record d) Viva-voce : 3 marks