

2124
B.A./B.Sc. (General) Fifth Semester
Biochemistry
Paper -B: Applied Biochemistry – I

Time allowed: 3 Hours

Max. Marks: 45

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Attempt the following:-

- Define Respiratory quotient of carbohydrates and lipids.
- Write down the biochemical role of vitamin C.
- What is the role of Dietary fibres?
- How is cytochrome P450 enzyme system important in detoxification?
- What is the role of Vitamin K in coagulation?
- Write the general mechanism involved in action of group II hormones. (6x1½)

UNIT - I

II. Explain the structure and biochemical function of Riboflavin, thiamine and folic acid. (9)

III. Describe the role of Vitamin A in visual cycle and Vitamin E as antioxidant. (9)

UNIT - II

IV. Describe Obesity and starvation. (9)

V. What is the role of proteins, carbohydrates and lipids in our diet? Describe in detail the diseases caused by PEM. (9)

UNIT - III

VI. Describe various types of conjugation reactions involved in detoxification. (9)

VII. What is meant by toxicity of pesticides? Explain the mechanism of Carbamate and organophosphate toxicity. (9)

UNIT - IV

VIII. Describe the mechanism of action of insulin and thyroid hormones. (9)

IX. Discuss the main features and mode of action of steroid hormones. (9)

x-x-x