

1127

B.A./B.Sc. (General) Fifth Semester

Bio-Chemistry

Paper - B: Applied Biochemistry - I

Time allowed: 3 Hours

Max. Marks: 45

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

I. Attempt the following:-

- a) What are Essential Fatty Acids and their importance?
- b) Define vitamins and draw structure of any two vitamins.
- c) What are Pesticides and how are they harmful to our body?
- d) What is the importance of Cytochrome P450?
- e) Name one Peptide, Steroid and Amine Hormone?
- f) What are Essential Nutrients?

(6x1½)

UNIT - I

II. Tabulate Water soluble Vitamins, their sources, and biochemical functions. (9)

III. Explain the role of any two fat soluble Vitamins. (9)

UNIT - II

IV. Describe Starvation and Obesity. (9)

V. Describe the following:-

- a) Protein Energy Malnutrition
- b) Specific Dynamic action of foods

(5,4)

UNIT - III

VI. Write Short notes on following:-

- a) Biochemical Basis of Carbamate toxicity
- b) Importance of Physio-chemical properties of toxic chemicals

(5,4)

VII. a) Explain various conjugation reactions involved in detoxification.
b) Describe the role of nutrition in influencing Toxicity. (5,4)

UNIT - IV

VIII. Explain hormones secreted by pancreas and Thyroid gland. (9)

IX. Write note on Hormones of the Adrenal Gland. (9)

x-x-x