

2053

B. Voc. (Medical Lab Technology)
Second Semester
BMLT-204: Basic of Biochemistry

Time allowed: 3 Hours

Max. Marks: 40

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

x-x-x

I. Explain the following:

- a) What are physiological buffers?
- b) Why enzymes are called biocatalyst?
- c) Define Normality.
- d) What is dialysis?
- e) Glycosidic linkage
- f) Differentiate nucleotide and nucleoside.
- g) What is Emulsification?
- h) Isoelectric point

(8x1)

UNIT - I

II. a) What are pH indicators and its uses?

b) What are Radio isotopes? Write uses of radioisotopes in biochemistry. (4,4)

III. a) What are percent solutions, saturated solutions & standard solutions? Write their importance.

b) What is meant by buffer solution? Write its significance. (4,4)

UNIT - II

IV. a) Differentiate between hypertonic, hypotonic and Isotonic solution by giving suitable examples.

b) Give brief classification of organic compounds. (4,4)

P.T.O.

(2)

- V. Define and classify colloids and crystalloid. (8)

UNIT - III

- VI. Write basic steps of analytic techniques like Electrochemistry & Immuno-chemistry. (8)
- VII. Write short notes on the followings:
- a) Spectrophotometer
 - b) Electrophoresis. (4,4)

UNIT - IV

- VIII. a) Describe the metabolism of proteins.
b) Discuss properties of carbohydrates. (4,4)
- IX. Write an account on therapeutic drug monitoring. (8)

x-x-x