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. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Write short note on following

a) Crystalloid
b) Differentiate Molarity & Molality
c) Uses of Chromatograph
d) Calculation of Equivalent Weight
e) Extraction of Aliphatic hydrocarbons
f) Basic principle of titrimetric analysis
g) Amphoteric compounds
h) Two general properties of DNA (8x1)

UNIT-I

II. a) What is a saturated solution? How is it prepared? Differentiate parent solution & standard solution.

b) Explain various ways of measuring Ph. 2x4=8

III. What are radio-isotopes? Explain their use in biochemistry in detail. 8

UNIT-II

IV. a) Classify the carbocyclic organic compounds and explain each type with an example. 5

b) Differentiate primary & secondary alcohols. 3

V. a) What is Dialysis? How does it differ from diffusion?

b) Explain different types of solutions on the basis of concentration of solute. 2x4=8

UNIT-III

VI. Explain the following analytic techniques of Immunochemistry

a) ELISA
b) Immunoelectrophoresis 2x4=8

VII. a) Write a note on the principle & use of flame photometer.

b) Describe the applications and principle of fluorimeter. 2x4=8

UNIT-IV

VIII. Write a brief note on the following

a) Therapeutic drug monitoring
b) β-oxidation of fatty acids 2x4=8

IX. a) Write the physical properties of fats

b) Transamination in protein metabolism 2x4=8

x-x-x