Exam Code: 1368 Sub. Code: 46476

2055

B. Voc. (Medical Laboratory Technology) **Second Semester**

BMLT-204: Basics 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

Q: 1. Explain the followings:

b) What is a buffer solution?

c) Name any two peptide hormones.

a) Differentiate between acid, base and salt.

d)	Define osmotic pressure.	
e)	What is the objective of Therapeutic Drug Monitoring?	
f)	Write the application of titrimetry.	
g)	Define surface tension.	
h)	What is the function of densitometer? (8	X1=8)
	UNIT-I	
Q: 2.	(a) Write note on pH indicators.	
	(b) Briefly explain Percent solutions & Standard solutions.	(4,4)
Q: 3. 1	What are Radioisotopes. Write different uses of radioisotopes in biochemistry.	(8)
	UNIT-II	
Q: 4.	a) Describe general characteristics of Organic compounds.	
	b) Differentiate between colloids and crystalloids.	(4,4)
Q: 5.	a) Write difference between hypotonic, hypertonic & isotonic solution.	
	b) What is dialysis? How osmosis is used in dialysis?	(4,4)
	UNIT-III *	
Q: 6. I	Define immunochemistry and write basic steps of immunochemistry.	(8)
Q: 7.	Write notes on the followings:	
	(a) Spectrophotometer.	
	(b) Electrophoresis	(4,4)
	UNIT- IV	
Q: 8.	a) Discuss the general properties of nucleic acids.	
	b) Differentiate between Hormones and Enzymes.	(4,4)
Q: 9.	Discuss basic concept of metabolism of carbohydrates.	(8)