Exam Code: 1367 Sub. Code: 9409

## 20**2**2

## B. Voc. (Medical Lab Technology)

## First Semester

BMLT-104: Introduction to Laboratory Equipments

Time al	lowed: 3 Hours	Max. Marks: 40
NOTE:	Attempt <u>five</u> questions in all, including Question No. I which selecting one question from each Unit.	is compulsory and
<i>x-x-x</i>		
I.	Give the answer of following questions in very brief:-	
	a) Why water bath used in lab?	
	b) What is use of incubators?	15
	c) Why micropipette used to measure the volumes?	
	d) Where we store the hygroscopic chemicals?	
	e) What do you mean by ultra-centrifugation?	
~	f) Give the name of two types of microscopes in lab.	
	g) Write the application of UV spectrophotometer.	
	h) Why we use electron microscope?	(8x1)
<u>UNIT - I</u>		
II.	a) What is the hot air oven? Write the applications of oven in the l	ab.
	b) What is the autoclave? Describe in brief the structure of autocla	ave. (4,4)
III.	a) Write the names of four instruments which are used in	qualitative analysis.
	b) Describe the various types of safety measures for lab equipmer	nts. (4,4)
<u>UNIT - II</u>		
IV.	a) What are the various methods to disinfection of laboratory?	
	b) What are the major reasons which cause the errors in results in	labs? (4,4)
V.	a) What are the different precautions used to glass apparatus?	
	b) Describe major methods to clean machines in labs.	(4,4)

UNIT - III

a) What are various components of compound microscope?

b) Write the working principle of dark ground microscope.

VI.

P.T.O.

(4,4)

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VII. a) What is the UV light microscope? Write its applications.

b) Write the only applications of polarized microscope.

(4,4)

## UNIT - IV

VIII. a) What are the merits of electron microscope over the compound microscope?

b) Write a short on fluorescent microscope.

(4,4)

IX. a) What is the ultra-microtomy care and handling?

b) Describe in brief about the various methods of lab safety and instrumentation (4,4)

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