

2122

B. Voc. (Medical Lab Technology)

First Semester

BMLT-104: Introduction to Laboratory Equipments

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. Give the answer of following questions in very brief:-

- a) Why an aerobic jar used in lab?
- b) What is use of centrifuge?
- c) Why micropipette used to measure the volumes?
- d) Where we must store the chemicals?
- e) What do you mean by disinfection?
- f) Give the name of two types of microscopes in lab.
- g) Write the application of UV light microscope.
- h) Why we use dark field microscope? (8x1)

UNIT - I

- II. a) What is the autoclave ? Write the structure and applications of autoclave in the lab.
b) What is the incubator? Describe in brief the structure of incubator. (4,4)

- III. a) Write the names of four instruments which are used in qualitative analysis.
b) Describe common laboratory equipments in labs. (4,4)

UNIT - II

- IV. a) What are the various methods to make sterilized glassware in laboratory?
b) What are the major reasons which cause the errors in results in labs? (4,4)

- V. a) What are the different methods used to maintained and cleaning of rubber goods?
b) How you calibrate apparatus inside the labs. (4,4)

UNIT - III

- VI. a) What is principle of compound microscope?
b) Write the working principle of interference microscope. (4,4)

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(2)

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

b) Write the only applications of polarizing microscope.

(4,4)

UNIT - IV

VIII. a) What is microscopic examination of bacteria?

b) Describe the phase contrast microscopy.

(4,4)

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

b) Describe in brief about the various precautions of lab safety.

(4,4)

x-x-x