

Exam Code: 1367
Sub. Code: 46471

2125

B. Voc. (Medical Lab Technology)
First Semester
BMLT-103: Basics of Human Anatomy

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. Answer the following:-

- a) What is epithelial tissue?
- b) Enlist different type of body secretions.
- c) Give features of Oesophagus.
- d) What is the significance of pancreas?
- e) What is the difference between artery and vein?
- f) Enlist various components of Thoracic cavity.
- g) What is Peripheral nervous system?
- h) What is the function of Ureter?

(8x1)

UNIT - I

- II. a) Give structural organization of the cell.
b) Write a short note on (i) muscular tissue (ii) membranes

(2x4)

- III. a) What are bones? Explain different types of joints.
b) Write a note on different type of body fluids.

(2x4)

UNIT - II

- IV. a) Discuss structure and functions of spleen.
b) Explain structure and function of stomach.

(2x4)

- V. a) Give functions of following: Liver, Tongue and Large intestine.
b) What is oral cavity? How it is organized?

(2x4)

UNIT - III

- VI. a) What is nasopharynx and oropharynx?
b) Explain structure of heart.

(2x4)

P.T.O.

(2)

- VII. a) Give structure and functions of lungs.
b) Write a note on Trachea and Larynx. (2x4)

UNIT - IV

- VIII. a) What is central nervous system and its significance?
b) Explain structure of eye with a well labeled diagram. (2x4)

- IX. a) Write notes on female reproductive system.
b) Discuss structure of a kidney. (2x4)

x-x-x

2125

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

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

- a) Why pH meter is used in lab?
- b) What is use of water bath?
- c) Write one application of spectrophotometer?
- d) Where we must store the chemicals?
- e) What do you mean by calibration of instrument?
- f) Give the name of two types of glassware used in lab.
- g) Write the application of U V light microscope.
- h) Why we use compound microscope?

(8x1)

UNIT - I

2. (a) What is the water bath? Write the applications of water bath in the lab.

(b) What is the autoclave? Describe in brief the structure of autoclave.

(4,4)

3. (a) Briefly describe about the safety precautions of common laboratory.

(b) Describe the various types of cleaning methods for lab equipments.

(4,4)

UNIT - II

4. (a) What are the methods of sterilization in laboratory?

(b) What are the major reasons which cause errors in results in labs?

(4,4)

5. (a) What are the different methods used to clean glass apparatus?

(b) How will you calibrate glass apparatus in lab?

(4,4)

UNIT - III

6. (a) What is principle of microscope?

(b) Write the working principle of compound microscope.

(4,4)

P.T.O.

(2)

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

(b) Mentioned various applications of interference microscope.

(4,4)

UNIT - IV

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

(b) Describe the examination of a bacteria in lab.

(4,4)

9. (a) What is the museum techniques?

(b) Describe in brief about the allied techniques of electron microscope.

(4,4)

x-x-x