

**B.Sc. MEDICAL TECHNOLOGY (LABORATORY) (BMLT)
SEMESTER -II EXAMINATION, JUNE-2026**

(BMLT203) HISTOLOGY AND CYTOPATHOLOGY - BASICS

[Time allotted: Three Hours]

[Max Marks: 100]

Note: Read all the instructions carefully

Answer all questions in serial order, Draw suitable diagrams wherever necessary

Q. 1. Objective type questions: (Attempt All)**(10 x 02 = 20)**

(Very short/ Short answer/ MCQ/ One liners/ Fill in the blanks/ True/False)

- a. Pap smear for cervical cancer screening is fixed in-----
- b. Name the most commonly used tissue fixative in routine practice.
- c. Name one embedding media.
- d. Name 1 substances used for decalcification
- e. Kuffer cells are seen in which organ-----
- f. Thyroid is a bilobed organ **(True/False)**
- g. Right lung has 3 lobes **(True/False)**
- h. Which of these is not a lipid?
 - i. Fats
 - ii. Oils
 - iii. Proteins
 - iv. Waxes
- i. Cardiac markers are:
 - i. CK, CK-MB, TROP-I
 - ii. AST, ALT, protein
 - iii. Carbohydrate
 - iv. Glucose
- j. What is the colour of normal CSF?
 - i. Colourless
 - ii. Yellow
 - iii. Light green
 - iv. Brown

Q. 2. Short notes/ Short answer type questions (Attempt any Five)**(05 x 04 = 20)**

- a. Histology of Thyroid gland (CO.2)
- b. Pap stain (CO.3)
- c. Methods of decalcification. (CO.2)
- d. Thyroid and pituitary axis. (CO.2)
- e. Physiology and normal histology of liver. (CO.2)
- f. Quality control in histopathology. (CO.11)
- g. Describe pathogenesis of tuberculosis. (CO 2)

Q. 3. Structured questions (Attempt any Three)**(03 x 10 = 30)**

- a. Types of haematoxylin and its preparation (CO.2)
- b. Enumerate different types of microscope and describe any one (CO.4)
- c. What are different laboratory hazards and safety precautions? (CO.2)
- d. Describe different stains used in routine lab (CO.2)

Q. 4. Long Answer/ Essay type questions (Attempt any Two)**(02 x 15 = 30)**

- a. Describe steps in processing of tissue for histopathology examination. (CO.2)
- b. Describe the morphology of colon and diagnosis of colon carcinoma. (CO.2)
- c. Give detailed structure and histology of Bone and Cartilage (CO.2)