

**Rani Rashmoni Green University**  
**M. Sc. First Semester Examination**  
**Subject: Medical Laboratory Science and Technology**  
**Clinical Laboratory Biosafety, Ethics and Quality Control**

**Course code: MLT-101**

**FM – 40Marks**

1. Answer any four of the followings:

2×4 =8

- a) What is Material Safety Data Sheet (MSDS)?
- b) Define flash sterilization?
- c) Write the full form of NFPA and AERB.
- d) Why lead apron is used for radiation safety?
- e) Write down any two sources of common burn in the laboratory.
- f) What do you mean by the International Classification of Diseases, Tenth Revision (ICD-10).

2. Answer any four of the following: 4x4=16

- a) State the guide line of ALARA (As Low As Reasonably Achievable) in radiation safety? 4
- b) What is PPE? Name the components of PPE. 1+ 3
- c) Differentiate between sterilization and disinfection. 4
- d) Describe Earthing and its importance. 2+2
- e) What is safety sign? Draw the symbol of radiation hazard and fire safety. 2+2
- f) Mention two merits and demerits of microfilming 2+2

3. Answer any two of the following:

2x8=16

- a) Briefly describe the core functions and major achievements of OSHA and WHO. 2+3+3
- b) What is bio-safety? Explain the principle of bio-safety level 2 and 4 (BSL2 and BSL4) 2+3+3
- c) what do you mean by hazard? Describe occupational health hazard in hospital. 2+6
- d) What is the primary function of a clinical laboratory? What do you mean by quality control in a clinical laboratory 4+4