

2025

M.Sc. 1st Semester Examination
BIOMEDICAL LABORATORY
SCIENCE AND MANAGEMENT

Paper : BMLC401X0

**[Ethical Standards and Safety
in Laboratory Medicine]**

Full Marks : 50

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *four* questions : 2×4=8

1. Who has the right to know the healthcare information and why?
2. How do you dispose-off the used needle?
3. What are meant by animal welfare and animal right?
4. What is meant by 'confidentiality' in medical research?
5. Name two PPE items require in BSL-3 labs.

P.T.O.

(2)

6. List any two chemical hazards that may happen in the laboratory diagnostic.

Group - B

Answer any *four* questions : $4 \times 4 = 16$

7. Write briefly on 'Informed Consent' process.
8. What are the categories of risk in biomedical research?
9. What are the mandates of CPCSEA to conduct research on animals?
10. Define biohazard in the laboratory. Mention any four safety precautions which should be taken in clinical specimen processing. $2+2$
11. Write the criteria of GLP. How do you handle electric fire in the diagnostic laboratory? $3+1$
12. State the measures taken to handle the exposure of eye irritants diagnostic. Draw the sign of biohazard. $3+1$

Group - C

Answer any *two* questions : $8 \times 2 = 16$

13. Discuss about the composition and responsibilities of institutional human ethical committee. $3+5$
14. Name the experimental animals whose approval is beyond the capacity of IAEC. Why are animals being used in experiments and research? $3+5$

(3)

15. Classify the biomedical waste with example. Discuss about the colour coding for segregation of biomedical waste. 5+3
16. Discuss about the different special practices for BSL-4 laboratory. Write the importance of use of biosafety cabinet. What are the criteria of class III BSC. 4+2+2

Internal Assessment - 10 marks
