

**2012**

**M.Sc.**

**1st Semester Examination**

**BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT**

**PAPER— BLM-102 (UNIT—3)**

**Full Marks : 40**

**Time : 2 Hours**

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**Answer all questions.**

**Module—I**

**(Laboratory Ethics)**

**[Marks : 20]**

1. Answer any *five* of the following : 1×5
- (a) Write the full form of ISO.
  - (b) Write the full form of IEC.
  - (c) What do you mean by preconditioning of patient ?
  - (d) Write the full form of GCP.
  - (e) What do you mean by 'confidentiality of information' as per ethics ?
  - (f) Write the name of any two ISO-modules.

*(Turn Over)*

(g) What is laboratory ethics ?

(h) State any one function of IEC.

2. (a) State the preconditioning of diabetic patient for blood sample collection as per laboratory ethics.
- (b) Write the guidelines of sample collection from a patient as per laboratory ethics.
- (c) State the process of sample analysis from the view point of laboratory ethics. 4+2+2

Or

- (a) Describe the ethical guidelines for sample handling and post analyzed sample disposal in laboratory.
- (b) State working relationship in laboratory from the view point of Laboratory ethics. (2+2)+4
3. (a) Write the composition of IEC of a health institution.
- (b) "ISO accreditation of a health institute increases its report" — Justify the statement.
- (c) State why laboratory ethics of 'Bio-safety' is important? 2+3+2

Or

- (a) State the ISO rules for laboratory medicine.
- (b) Explain the health surveillance from the angle of laboratory ethics.
- (c) "laboratory ethics is something beyond job responsibility" — Justify the statement citing an example. 3+2+2

**Module—II**  
**(Laboratory Bio-safety)**

[Marks : 20]

4. Answer any *five* of the following : 1×5
- (a) Why 70% alcohol is used in Biomedical Laboratory frequently ?
  - (b) Write the name of one instrument in the laboratory which generates aerosol.
  - (c) Draw the sign of Biohazards.
  - (d) Write the full form of BSC.
  - (e) What do you mean by primary contamination in a Laboratory ?
  - (f) Write the full form of HEPA.
  - (g) What is the use of dosimetric badge ?
  - (h) What is fume hood ?
5. (a) Discuss about standard microbiological practices in a laboratory.
- (b) What is dunk tank? 7+1
- Or
- (a) Classify and define different risk groups of microorganism with example.
- (b) What is the demerit of BSC-I. 6+2

6. (a) Why UV-radiation is not a very suitable process for Sterilization.

(b) Briefly state few aspects of radiological safety. 3+4

Or

(a) Why baseline serum collection from workers is important in a biomedical laboratory?

(b) What is a suit laboratory?

(c) State briefly about microwave sterilization process in a biomedical laboratory. 2+3+2