

2013

M.Sc.

1st Semester Examination

BIO-MEDICAL LAB Sc. & MANAGEMENT

PAPER—BLM-102(U-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.

Illustrate the answers wherever necessary.

Answer all questions.

Module—I

(Laboratory Ethics)

(Marks : 20)

- 1. Answer any five questions from the following : 1×5**
 - (a) Write the full form of GLP.
 - (b) Define laboratory ethics.
 - (c) Write the full form of IEC.
 - (d) Write the full form of ISO.

(Turn Over)

- (e) What do you mean by GCP?
- (f) What do you mean by diagnostic in laboratory?
- (g) What is personal management?
- (h) What do you mean by preconditioning of patients?

2. (a) Write the composition of IEC.
- (b) State the major role played by IEC.
- (c) "Employee and authority are two pillars of an institute" — Justify the statement from the view point of laboratory ethics. 2+4+2

Or

- (a) Discuss ISO rules in brief for laboratory Medicine.
- (b) Write in brief on medical surveillance. 5+3
3. (a) "Confidentiality of Laboratory data is most important part as per norm of laboratory ethics" — Justify the statement.
- (b) Write in brief about the accountability of laboratory technological from the view point of Laboratory ethics. 4+3

Or

- (a) Discuss in brief about laboratory ethics of bio-safety.
- (b) State the code of good and safe laboratory practice for quality upgradation of laboratory. 4+3

Module—II**(Biosafety)****(Marks : 20)**

4. Answer any *five* questions from the following : 1×5
- What is HVAC ?
 - Give an example of secondary barrier.
 - Why 70% alcohol is preferred as disinfectant ?
 - What is fume-hood ?
 - Why water is not used to stop fire from xylene in the laboratory ?
 - Draw the symbol of biohazards.
 - What is HEPA filter ?
 - What is dosimeter ?
5. (a) Give the brief description of a suit laboratory.
 (b) Enumerate the major features of BSC-Cabinet II.
 (c) What is baseline serum ? 3+3+2

Or

- What is primary barrier ?
- How would you conduct wipe test in a laboratory handling radioactive agents ?
- How would you safely sterilize an inoculation loop over flame ?
- What types of hazards you may face while using centrifuge in a microbiology laboratory ?

 $1\frac{1}{2}+3+2+1\frac{1}{2}$

6. (a) What is the fundamental difference between sterilization and disinfection?
- (b) Briefly state chemical and physical sterilization methods with an example from each.
- (c) What is the principle of microwave sterilization?

2+(2+2)+1

Or

Write short notes on :

- (a) Different types of fire extinguisher for different types of fire.
- (b) Risk group of micro-organism.

4+3