

2009

M.Sc.

1st Semester Examination

BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER—II & UNIT—III

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) What is ISO-9004 ?
 - (b) Write the definition of ethics.
 - (c) What is the quality of Laboratory services ?
 - (d) What is Medical surveillance ?
 - (e) Write the full form of TQM.
 - (f) Write the full forms of GLP and GCP.
 - (g) What is accreditation ?

(Turn Over)

(h) Write the importance of privacy maintenance of patient's information.

2. (a) Write the series of ISO-9000.

(b) Discuss the important of ISO-accreditation of health institute.

(c) Describe the working relationship of Laboratory technologist with other health professionals in the context of laboratory ethics. 2+3+3

Or

(a) Write the role of laboratory technologist in conduction of laboratory investigation from the ethical point of view.

(b) Discuss the major duties of the management system for the reputation of the institute from the aspect of laboratory ethics. 4+4

3. (a) Write the role of Institutional Ethical Committee.

(b) Write the composition of the members of Institutional Ethical Committee in general. 4+3

Or

(a) "GLP is one of the important factors for quality maintenance." Justify the statement.

(b) Discuss briefly the importance of the integrity of clinical laboratory services from the point of laboratory ethics. 4+3

Module—II
(Laboratory Bio-safety)

[Marks : 20]

4. Answer any five of the following : 1×5
- (a) What is carcinogen?
 - (b) What do you mean by eye wash station?
 - (c) Write the full form of HVAC system?
 - (d) What are the different types of autoclave?
 - (e) What is secondary barrier?
 - (f) What do you mean by safety check list?
 - (g) Write the name of two disinfectants which used in a laboratory very frequently.
 - (h) Draw the symbol of biohazard sign.
5. (a) What is the use of *suit laboratory* and which type of BSL required in this type of laboratory?
- (b) Draw the schematic sketch of a BSL-4 laboratory and mention its special features. (1+1)+(3+3)
- Or
- (a) What is baseline serum?
 - (b) Why the use of incinerator is restricted for biomedical waste management?
 - (c) Define Risk group-3 & Risk group-4 micro-organisms.
 - (d) What are the safety precautions required to work with radioactive substances. 2+2+(1+1)+2

Or

- (a) How do you manage the fire generated from the xylene ?
- (b) What are the bio-hazards of centrifuge and sonicator ?
- (c) Mention the different types of pre-extinguishers and their uses. 2+2+3

Or

- (a) What is the significance of signage system for bio-safety in the laboratory ?
 - (b) Briefly discuss about the different types of primary barriers and their uses. 2+5
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