

2008**M.Sc.****1st Semester Examination****BIO-MEDICAL LABORATORY SCIENCE & MANAGEMENT****PAPER—II (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.

Illustrate the answers wherever necessary.

Module-I**(Ethics of Laboratory Medicine)**

1. Answer any five : 1×5
- (a) What do you mean by ISO-9000 ?
 - (b) Write the principle of Ethics in laboratory.
 - (c) What is the importance of laboratory accreditation ?
 - (d) What is 'Institutional Ethical Committee' ?
 - (e) What is emergency investigation from ethical point of view ?
 - (f) What is medical surveillance ?
 - (g) State the ethical view of Bio-safety.
 - (h) What is Data Bank ?

(Turn Over)

2. (a) Write the duties of different laboratory staffs at the time of processing of infections sample from the angle of laboratory ethics. 5+3
- (b) State the procedural steps of personal management in diagnostic laboratory from the ethical point of view. 5+3

Or

- (a) Describe the role of sample collector for quality results from the view of laboratory ethics. 4+4
- (b) State the importance of data preservation as per the guideline of laboratory ethics. 4+4
3. (a) Write the role of 'Safety Engineer' in hospital from the ethical dimension. 4+3
- (b) State the importance of confidentiality of patient's information in laboratory as per ethics. 4+3

Or

- (a) State the 'Doctor-Laboratory Technician' relationship from the angle of laboratory ethics for quality results outcome. 3+4
- (b) Write the ISO rules for laboratory medicine. 3+4

Module-II

(Laboratory Bio-safety)

4. Answer any five :

1×5

- (a) What is the full form of HEPA ?
- (b) What is mutagen ?
- (c) What is dunk tank ?
- (d) What is the use of shredder in a bio-medical laboratory ?
- (e) What is flash point of a chemical ?
- (f) What is vacutainer tube ?
- (g) What is aerosol ?
- (h) Mention the specific use of water-mist extinguisher.

5. (a) Why 70% alcohol is used frequently in a laboratory for sterilization purpose ?
- (b) Define Risk group-2 and Risk group-4 micro-organism with suitable example.
- (c) How do you sterilize inoculation loop under flame ?
- (d) What precaution should you take for the preservation of compressed gas ?

1+3+2+2

Or

- (a) What is the functional mechanism of hydroclaves ?
- (b) How do you dispose off anatomical waste of a laboratory ?
- (c) Discuss briefly with specification about BSC-II.
- (d) What is fume hood ?

3+3+2

6. (a) What are the biosafety guideline followed in a BSL-3 laboratory?
- (b) What is baseline serum? 5+2

Or

- (a) Mention briefly the different aspects of laboratory first-aid.
- (b) What types of precautions you should take while handling radioisotopes? 4+3
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