

**BLM 1st Semester Examination, 2019**

**BIOMEDICAL LABORATORY SCIENCE  
AND MANAGEMENT**

**PAPER —BLM-103**

*Full Marks : 40*

*Time : 2 hours*

**Answer all questions**

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

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

*Illustrate the answers wherever necessary*

1. Answer any *four* questions from the following : 2 × 4
- (a) What is meant by IRB ?
- (b) What are the ethical guidelines available world-wide for research in human participants ?

( Turn Over )

- (c) Define the term "COI".
- (d) Write the full form of CDSCO and DCGL.
- (e) What are the core principles of ethics for clinical laboratories ?
- (f) What are the key ethical issues used in the analytical phase of clinical specimen processing ?
- (g) What is meant by 'Bio ethics' ?
- (h) What do you mean by "accountability" from ethical point of view ?

2. Answer any *four* questions from the following :

4 × 4

- (a) What are the different categories of ethics ?
- (b) Discuss the responsibilities of IEC.
- (c) What is the role of benefit-risk assessment in ethics ?
- (d) Short note : Informed consent process.
- (e) What are the elements of a laboratory biosecurity plan ?

- (f) Discuss about the professional ethical guidelines for biomedical laboratory technologist.
- (g) Write about the approach to manage the biorisk.
- (h) Describe briefly the ethical issues starting from sample collection to production of data.

3. Answer any *two* questions from the following :  $8 \times 2$

- (a) What is meant by VBM? What are the different categories of VBM? 2 + 6
  - (b) What is meant by "CPCSEA"? What are the objectives of CPCSEA to supervise and control experiments on animals in India. 2 + 6
  - (c) What is the ILO? Write the general principles on medical and health surveillance following the ILO. 1 + 7
  - (d) Write the functions of the ethics committee in India. What is the importance of post-analytical phase ethical issues? 5 + 3
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