

2019

MSc

4th Semester Examination

**Bio Medical Laboratory Science & Management
(Theory)**

PAPER - BML_404

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.

(Turn Over)

Answer Q. No. 1 and any THREE from the rest

1. Answer any Five questions: 5×2=10

- a) What do you mean by LD₅₀ and ED₅₀ values?
- b) Write the full form of CPCSEA and IPR
- c) What is point mutation?
- d) Write the full forms of IHEC and IAEC.
- e) What do you mean by biotransformation of drug?
- f) Write any two roles of ' Drug Regulatory Authority of India'.
- g) Write the names of any two oncogene.
- h) What do you mean by synergistic effects of drugs?

2. a) Write the guide lines of ' CPCSEA' to conduct Pre-clinical research on animals. 5 + 5=10

- b) What are the precautions you will adopt being a researcher to patent your research output?

3. a) How does drug transport in blood modulated by nutritional status of the patient? 3+4+3=10

- b) Write the Phase-I and Phase-II bio-transformation of drug in our body.
- c) State the drug reabsorption modulation by nutrients.

4. a) What is reproductive toxicity? **2+6+2=10**
b) Discuss any four sensors of reproductive toxicity assessment due to drug intake.
c) Write in brief the relation between pre-clinical and clinical research.
5. a) What is Pharmaco vigilance? **2+5+3=10**
b) State the duties performed by pharmacovigilance team in general.
c) What do you mean by post drug approval?
6. a) Write the duties of "Institutional Ethics Committee". **5+5=10**
b) State briefly on the conduction of Phase-I & Phase-II clinical research.