M. Sc.

2017

4th Semester Examination

BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER—BLM-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.

Answer Q. No. 1 and any *three* from the rest.

1. Answer any *five* questions of the following : 5×2

(a) What do you mean by acceptable mutation ?

(b) Write the full form of IEC and IPR.

(c) What do you mean by drug adaptation ?

(d) Define pre-clinical trial of drug.

(e) Write the nature of biochemical reaction operated in liver of second phase of drug bio-transformation.

(f) Write the full form of SAE and FDA.

(g) What do you mean by therapeutic dose of any drug?

(h) Define pharmacovigilance.

2. (a) Write in brief about the regulators of drug toxicity.

(b) State the mode of action of the drug for the onset of cancer.

(c) How does the drug can induce macro mutation?

3+4+3

3. (a) Describe in brief about the factors that interfere the drug bioavilability.

(b) "Drug absorption from intestine is also controlled by dietary components"–Justify the statement.

(c) Why same dose of the drug is not effective for all individuals in the community suffering from same disease?

3+4+3

4. (a) Write in brief the Phase-I and Phase-II clinical trials of the drug in brief.

(b) State the major domains of investigation of pharmacovigilance department.

(c) Define acute, sub-chronic and chronic toxicity. 5+2+3

5. (a) Define clinical research.

(b) State the role of basic researches in the field of clinical research.

(c) What do you mean by post-drug approval ?

(d) Describe bio-pharmaceutics in brief. 2+3+2+3

6. (a) Write the major roles deliverd by the 'IEC'.

(b) State the protocol adopted for new drug discovery process.

(c) What are the phases of submission IPR in clinical research ? 3+4+3

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