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**MPL 202 T**

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**M.Pharm. 2<sup>nd</sup> Semester End-Term Examination**

**PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS - II**

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks for the questions.

Group A

1. Attempt the following:

(5 × 2 = 10)

- Descriptive Toxicology
- ICH
- Schedule Y
- IND
- HERG Assay

Group B

2. Answer any nine of the following:

(9 × 5 = 45)

- Briefly explain the salient points of OECD guidelines.
- Write about teratogenicity studies.
- Write about OECD principles of GLP.
- Write a note on chromosomal aberrations studies.
- What are the different types of Toxicology studies?
- Write a note AMES test.
- What are the objectives and importance of safety Pharmacology studies?

[Turn over

- (h) Write a note on EPA regulatory guidelines for conducting toxicity studies.
- (i) Discuss the importance of saturation kinetics in toxicokinetic studies.
- (j) Write a note on in vivo carcinogenicity studies.
- (k) Write a brief note on acute oral toxicity studies as per OECD guidelines.

Group C

3. Answer any two questions (2 × 10 = 20)

- (a) Explain in details about male reproductive toxicity studies.
  - (b) Describe in detail about dermal toxicity studies as per OECD guidelines.
  - (c) List out and discuss the studies needed for IND submission.
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