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**M. PHARM.**  
**(SEM. II) THEORY EXAMINATION 2017-18**  
**PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-II**

**Time: 3 Hours****Total Marks: 75****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- What is the objective of Globally Harmonized System (GHS) for the classification of a chemical?
  - What is Form 44?
  - Name any two OCED test guidelines for oral toxicity studies.
  - What do you mean by Satellite group?
  - Name two clastogens used as a positive controls in *in-vitro* mammalian chromosomal aberration test.
  - Write the principle of Perinatal Study (Segment III).
  - What is IND? Discuss its types.
  - What is HERG assay?
  - What is the basic difference between pharmacokinetics and toxicokinetics?
  - Write a short note on Dried Blood Spot bioanalysis.

**SECTION B**

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- Discuss the OECD principles of Good laboratory practice (GLP) in detail.
  - Describe Guinea-pig maximisation test method in detail.
  - Write a short note on the following:
    - Ames test
    - in-vivo* micronucleus assay

**SECTION C**

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- Discuss the role of OECD, ICH, and Schedule Y in toxicity studies.
  - What do you mean by Test item? Discuss the characterization for specific test items.
  - Write the objectives and principle of combined chronic toxicity\carcinogenicity studies (OECD TG 453).
  - Explain teratogenicity studies (segment II) as per schedule Y in detail.
  - Write a descriptive note on safety pharmacology core battery of tests by ICH guidelines S7A and S7B.
  - Discuss the role of toxicokinetic evaluation in the drug development process
  - Write a note on alternative methods to animal toxicity testing.