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

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections.

**SECTION A****1. Attempt all questions in brief.****10 x 2 = 20**

- ❖ Write down about (in short) :-
  - A. Euthanasia of experimental animals.
  - B. Anesthetic agent of laboratory animals.
  - C. CPCSEA
  - D. Nootropics
  - E. Immunosuppressants
  - F. Objectives of Immunoassay.
  - G. Insulin Limitations of animal experimentation
- ❖ Enlist three Preclinical pharmacological screening models of following-
  - H. Analgesics
  - I. Anti -emetic
  - J. Anti hypertensive

**SECTION B****2. Attempt any two of the following:****2 x 10 = 20**

- A. What do you understand about maintenance and breeding of laboratory animals as well as also discuss about significance of Anesthesia on experimental animals?
- B. Explain in brief about Immunoassay methods its objective and preparation as well as evaluation for preclinical studies.
- C. Write down preclinical screening of the pharmacological activity using *in vivo*, *in vitro*, and other possible animal alternative models. (**Any one**)
  - 1) Anti epileptics
  - 2) Anti ulcer

**SECTION C****3. Attempt any seven parts of the following:****7 x 5 = 35**

- A. Write down preclinical screening of the Anti cancer agents using *in vivo* models.
- B. Discuss in detail about various routes of drug administration in experimental animals.
- C. Write down preclinical screening of the Anti diarrheal and laxatives using *in vivo* models.
- D. Write a note on commonly used experimental animals and other transgenic animal models.
- K. Write down in short about Hepatoprotective screening methods.
- E. Explain in brief about Maintenance and breeding of laboratory animals.
- F. Write down preclinical screening of the Parkinsonism using *in vivo* models.
- G. Explain in brief about effects of Anesthesia on experimental animals
- H. What do you understand about preclinical screening of the Alzheimer disorder using *in vitro* animal models?