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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

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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 x5 = 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?

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