Printed Pages: 01
Paper Id: 298103
Sub Code: MPL103T
Roll No.

M. PHARM.

(SEM I) THEORY EXAMINATION 2018-19

PHARMACOLOGICAL & TOXICOLOGICAL SCREENING METHODS-I

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.

 $10 \times 2 = 20$

- a. What do you mean by Test item in GLP?
- b. Which chemical is required for fusion of karyoplast with the enucleated cell?
- c. What is the role of Isoguvacine or muscimol in [³H]-GABA receptor binding assay for screening of GABAergic Compounds?
- d. Name the behavioral test used for assessing spatial learning.
- e. Which cell line is used for *in-vitro* NO release test (aphrodisiac activity)?
- f. Write down the principle of Konzett-Rossler method.
- g. Why aconitine used in preclinical screening of anti-arrhythmic agents? Write its mechanism of action.
- h. Enlist various models used for drug screening of non-insulin-dependent diabetes.
- i. Differentiate heterogeneous and homogenous immunoassay systems.
- j. What do you mean by micro-dosing studies?

SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- a. Discuss CPCSEA guidelines to conduct experiments on animals.
- b. Explain any two *in-vitro* methods for the preclinical screening of anti-epileptics.
- c. Discuss possible animal alternative models for preclinical screening of immunomodulators.

SECTION C

3. Attempt any five parts of the following:

 $7 \times 5 = 35$

- a. What are the main requirements of GLP (Good Laboratory Practice)?
- b. Discuss different methods used for the screening of sympathomimetic drugs.
- c. Explain any two *in-vivo* methods for the preclinical screening of anti-emetics.
- d. Write a note on *in-vivo* methods for the screening of anti-inflammatory agents.
- e. Illustrate any two methods for the preclinical screening of antiatherosclerotic agents in detail.
- f. Name any five *in-vivo* models used for the screening of hepatoprotective agents. Explain any one in detail.
- g. Describe immunoassay for digoxin in detail.