

B PHARM
(SEM VIII) THEORY EXAMINATION 2022-23
EXPERIMENTAL PHARMACOLOGY

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. 2x 10 = 20**
- (a) Write full name of CPCSEA and OECD.
 - (b) Enlist examples of transgenic and mutant animals.
 - (c) What do you understand by negative control and positive control in animal grouping?
 - (d) State any two preclinical screening animal models for anti-inflammatory activity.
 - (e) Explain *In vivo* and *In vitro* methods in preclinical screening.
 - (f) Define research design.
 - (g) What is research hypothesis?
 - (h) Write any two types of graphical representation of data.
 - (i) Outline any two preclinical screening models for anti-epileptic agent.
 - (j) Enlist any two tests for a hypotheses testing.

SECTION B

- 2. Attempt any two parts of the following: 10 x 2 = 20**
- (a) Describe the method for production, maintenance and applications of transgenic animals.
 - (b) How will you perform preclinical screening of antipyretic and analgesic agents via *in vivo* and *in vitro* models?
 - (c) Explain in detail about data and its graphical representation.

SECTION C

- 3. Attempt any five parts of the following: 5 x 7 = 35**
- (a) State any two screening methods for antihypertensive drugs.
 - (b) Discuss about In-vitro screening method for anticancer agent.
 - (c) Illustrate the screening methods for anti-emetic and anti-diarrhoeal agents?
 - (d) Explain the anesthesia and euthanasia of experimental animals.
 - (e) How will you perform preclinical screening for skeletal muscle relaxant agent? Describe any two models.
 - (f) Explain preclinical screening models for anti-diabetic agents.
 - (g) Write in detail about preclinical screening models for Diuretics, nootropics.