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

Time: 3 Hours

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Total Marks: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

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1. Attempt all questions in brief.

2x 10 = 20

- Write full name of CPCSEA and OECD.
- Enlist examples of transgenic and mutant animals.
- What do you understand by negative control and positive control in animal grouping?
- State any two preclinical screening animal models for anti-inflammatory activity.
- Explain *In vivo* and *In vitro* methods in preclinical screening.
- Define research design.
- What is research hypothesis?
- Write any two types of graphical representation of data.
- Outline any two preclinical screening models for anti-epileptic agent.
- Enlist any two tests for a hypotheses testing.

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SECTION B

2. Attempt any two parts of the following:

10 x 2 = 20

- Describe the method for production, maintenance and applications of transgenic animals.
- How will you perform preclinical screening of antipyretic and analgesic agents via *in vivo* and *in vitro* models?
- Explain in detail about data and its graphical representation.

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SECTION C

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3. Attempt any five parts of the following:

5 x 7 = 35

- State any two screening methods for antihypertensive drugs.
- Discuss about In-vitro screening method for anticancer agent.
- Illustrate the screening methods for anti-emetic and anti-diarrhoeal agents?
- Explain the anesthesia and euthanasia of experimental animals.
- How will you perform preclinical screening for skeletal muscle relaxant agent? Describe any two models.
- Explain preclinical screening models for anti-diabetic agents.
- Write in detail about preclinical screening models for Diuretics, nootropics.

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