

22/04/2021

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2021

M.Pharm. 1<sup>st</sup> Semester (Regular) Examination

Pharmacology

PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING  
METHODS-I

(New Regulation w.e.f 2017 - 2018)

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

SECTION - A

Attempt all the questions :

(10 × 2 = 20)

Write short notes of the following:

1. Preclinical Screening
2. Transgenic animals
3. Terminal blood collection
4. CPCSEA
5. Bioassay
6. Hole-Board Test
7. Chimney Test
8. SHAY Rat
9. Writhing Test
10. In-vivo and in-silico

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## SECTION – B

11. Answer any Seven questions:

(7 × 5 = 35)

Write notes on:

- (a) Streptozotocin induced Diabetes.
- (b) Despair Swim Test.
- (c) Evaluation of CNS depression.
- (d) MES Induced convulsion.
- (e) Rabbit Tooth pulp Assay.
- (f) Three point Bioassay.
- (g) Screening of Muscle relaxant property.
- (h) Evaluation of Antacids.
- (i) Limitations of animal experimentation.

## SECTION – C

12. Answer any two questions:

(2 × 10 = 20)

- (a) Enumerate the Pharmacological Screening Models of Central analgesic activity.
  - (b) Discuss the Screening methods for anti-diabetic agents.
  - (c) Write notes on any two of the following
    - (i) Screening Methods in drug discovery process
    - (ii) Screening of immunostimulant
    - (iii) Hepatoprotective Screening Methods
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