

M. PHARMACY DEGREE EXAMINATIONS, JULY - 2022
First Semester
PHARMACOLOGY
PHARMACOLOGICAL & TOXICOLOGICAL SCREENING
METHODS - I

Time : Three Hours

Maximum : 75 Marks

SECTION - A**Answer any FIVE Questions.****5x5 = 25 M**

1. Discuss about handling and collection of biological samples from experimental animals.
2. Enumerate Rotarod method in preclinical screening.
3. Explain the procedure and evaluation of drugs by Maximum Electro Shock method.
4. Describe any one in vitro method for screening of antidiabetic drugs.
5. Write about bioassay of antagonists.
6. Discuss rationale and procedure for screening of anti hyperlipidemic drugs using any one model.
7. Write the applications and advantages of Immuno assays.

SECTION - B**Answer any FIVE Questions.****5x10 = 50 M**

8. Describe the objective of CPCSEA. Write about contents and application of Form - A and Form - B.
9. List out in vivo preclinical screening methods for anxiolytics. Discuss in detail about any two models.
10. Write in detail procedure and evaluation of any one in vivo preclinical screening of drugs for
 - a) Parkinsonism.
 - b) Alzheimers.

11. Describe in detail preclinical screening of analgesics.
12. Explain use of following methods in screening of drugs acting on cardio-vascular system.
 - a) Langendorff apparatus.
 - b) Isoproterenol Induced myocardial necrosis.
13. Discuss any one in vivo screening methods for
 - a) Diuretic agents.
 - b) Immunosuppresants.
14. Explain in detail principles of prediction of pharmacokinetic data and their extrapolation from preclinical studies to humans.



Total No. of Questions : 14]

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M. PHARMACY (SUPPLE) DEGREE EXAMINATIONS, JANUARY - 2022

First Semester

PHARMACOLOGY

**PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING
METHODS - I**

Time : Three Hours

Maximum : 75 Marks

SECTION - A

Answer any FIVE Questions.

5x5 = 25 M

1. Discuss about classification of Bio assays. Write about quantal assay.
2. Write the immuno assay for digoxin.
3. Discuss the screening models of immuno modulators.
4. Discuss about screening methods of antihypertensive drugs.
5. Explain any 2 screening methods for anti-psychotic agents.
6. Discuss alternative to animal screening methods.
7. Explain the role of animals in Experimental Pharmacology.

SECTION - B

Answer any FIVE Questions.

5x10 = 50 M

8. Write about CPCSEA guidelines for conduction of animal experiments.
9. Write the 3 screening methods for Anti Cancer agents.
10. Describe the screening methods for anti ulcer agents.
11. Enlist the screening models for anti epileptic agents and explain any two of them.
12. Discuss the Hepatoprotective screening models in animals.
13. Discuss about anaesthesia & Euthanasia of experimental animals.
14. Describe the methods for production & applications of Transgenic animals.

Total No. of Questions :14]

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M.PHARMACY (Regular) DEGREE EXAMINATIONS, FEB/MAR-2020

First Semester

M.PHARMACY

PHARMACOLOGY

PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-I

Time: Three Hours

Maximum marks:75

SECTION-A

Answer any FIVE Questions

5X5=25M

1. Write short notes on good laboratory practice?
2. Explain the use of knock-out mouse in the preclinical evaluation of drugs?
3. Discuss the different methods of blood collection?
4. Explain the optimization of immunoassay?
5. Describe about char coal meal test?
6. Explain about Randall-Sellito test?
7. Describe about conditioned avoidance test?

SECTION-B

Answer any FIVE Questions

5X10=50M

8. Discuss any two methods for preclinical evaluation of Anti-arrhythmics?
9. Discuss about any three methods for screening of antidiabetic drugs?
10. Discuss about any two methods for preclinical evaluation of antiulcer drugs?
11. Discuss about immunoassay methods for Insulin?
12. Discuss about any three methods for preclinical evaluation of hepatoprotective drugs?

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13. Discuss about any three methods for screening for antiasthmatic drugs?
14. Explain about the following (a) CPCSEA (b) Principles of Immunoassay

