Roll No.	Total No. of Pages: 01
Total No. of Questions: 06	

M.Pharmacy (Pharmacology) (Sem.-2)
ADVANCED PHARMACOLOGY -II

Subject Code: MPL/201T M.Code: 74943

Date of Examination: 08-05-2024

Time: 3 Hrs. Max. Marks: 75

#### INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.
- a) Discuss anti-inflammatory and immunosuppressive actions of corticosteroids. (8) 1. b) Give an account of drugs for thyroid storm. (7)2. Write notes on followings: a) GLP-I agonists and DPP-IV inhibitors. (5)b) COMT inhibitors. (5) c) AChE inhibitors. (5) a) Discuss mechanism of action, adverse effects and therapeutic status of Amphotericin-B. 3. (8) b) Add a note on tyrosine kinase inhibitors as anticancer agents. (7)Classify, discuss the mode of action, antibacterial spectrum, adverse drug reactions and uses of: (8) a) Ciprofloxacin (7) b) INH. a) Write a note on recent advances in the treatment of Alzheimer's disease. (8)b) Add a note on Chronopharmacology and its applications in cardiovascular disease. (7) Write notes on the following: a) Role of free radicals in various diseases. (5) b) Mediators of Inflammation. (5)(5)c) Artemisinin.

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June-2024

1 | M-74943

(S31)-310

Roll No.

Total No. of Pages: 01

Total No. of Questions: 06

M.Pharmacy(Pharmacology) (Sem.-2)

# PHARMACOLOGICAL & TOXICOLOGICAL SCREENING METHODS-II

Subject Code: MPL/202T

M.Code: 74944

Date of Examination: 11-05-2024

Time: 3 Hrs.

Max. Marks: 75

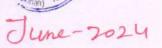
## INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.
- Discuss in detail the importance of OECD principles of good Laboratory Practice in drug 1.
- What is safety pharmacology? Discuss in detail the scope, importance and principles of 2. safety pharmacology.
- a) Write a note on repeated dose oral toxicity studies. 3.
  - b) Discuss the inhalational toxicity studies as per OECD guidelines.
- 4. Write short notes on:
  - a) Acute eye irritation testing.
  - b) Dermal toxicity studies.
- Write notes on following: 5.
  - a) Toxicokinetics and its applications in preclinical toxicity testing of drugs.
  - b) Carcinogenicity studies.
- Write short notes on following: 6.
  - a) Ame's test
  - b) IND
  - c) Determination of LD50 and its significance.

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(S31)-514



Roll No.

Total No. of Pages: 01

Max. Marks: 75

Total No. of Questions: 06

M.Pharmacy (Pharmacology) (Sem.-2)

#### CLINICAL RESEARCH & PHARMACOVIGILANCE

Subject Code: MPL/204T M.Code: 74946

Date of Examination: 18-05-2024

Time: 3 Hrs.

#### **INSTRUCTIONS TO CANDIDATES:**

1 | M-74946

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.
- 1. Discuss about salient features of ethical guidelines for biomedical research on human participants. Describe the composition and functions of institutional review board.
- 2. Discuss about the factors influencing, special provisions, storage space requirements, sterile and aseptic area in a plant layout.
- 3. Describe the composition of clinical trial study team. Explain the role and responsibilities of clinical trial personnel.
- 4. Describe the objective, contents of a study protocol, case report form and clinical study report in a clinical trial.
- 5. Discuss about pharmacovigilance programme of India and international aspects. Discuss about WHO international drug monitoring programme.
- 6. Enlist various types and design of clinical studies. Discuss in detail about observational studies and its types.

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(S31)-890

June-2024

Roll No.

Total No. of Pages: 01

Total No. of Questions: 06

M.Pharmacy (Pharmacology)(Sem.-2)

### PRINCIPLES OF DRUG DISCOVERY

Subject Code: MPL/203T M.Code: 74945

Date of Examination: 15-05-2024

Time: 3 Hrs.

Max. Marks: 75

### INSTRUCTIONS TO CANDIDATES:

- Attempt any FIVE questions out of SIX questions.
- Each question carries FIFTEEN marks.
- a) Give the detailed overview of target identification and its validation in drug 1. discovery.
  - b) What is Antisense technology? How it is act as an important drug discovery (5) platform?
- Write a detailed note on:
  - a) Homology modeling methods for prediction of protein structure. (8)
  - (7)b) Assay development for hit identification.
- a) Explain in detail various Structure and Pharmacophore based approaches used for 3. (9)rational drug design.
  - b) Give a comparative note on rational and traditional drug design approaches. (6)
- Comment upon: 4.

(5\*3)

- a) De novo drug design
- b) Hansch analysis
- c) SAR vs QSAR.
- Give a detailed explaination of basic concept behind the design of prodrugs. Comment 5. upon various types of prodrugs. Examplify prodrugs used to improve patient compliance, (15)drug solubility, drug absorption and distribution.
- Describe the following: 6.

(5\*3)

- a) Pharmacophore mapping
- b) Transgenic animals in drug discovery
- c) Combinatorial chemistry.

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(S31)-706