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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.**

1. a) Discuss anti-inflammatory and immunosuppressive actions of corticosteroids. (8)
   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)

3. a) Discuss mechanism of action, adverse effects and therapeutic status of Amphotericin-B. (8)
   b) Add a note on tyrosine kinase inhibitors as anticancer agents. (7)

4. Classify, discuss the mode of action, antibacterial spectrum, adverse drug reactions and uses of :
   a) Ciprofloxacin (8)
   b) INH. (7)

5. 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)

6. **Write notes on the following :**
   a) Role of free radicals in various diseases. (5)
   b) Mediators of Inflammation. (5)
   c) Artemisinin. (5)

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Total No. of Questions : 06

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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.

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

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M.Pharmacy (Pharmacology) (Sem.–2)

CLINICAL RESEARCH & PHARMACOVIGILANCE

Subject Code : MPL/204T

M.Code : 74946

Date of Examination : 18-05-2024

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE questions out of SIX questions.**
2. **Each question carries FIFTEEN marks.**

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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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 :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. a) Give the detailed overview of target identification and its validation in drug discovery. (10)

   b) What is Antisense technology? How it is act as an important drug discovery platform? (5)

2. Write a detailed note on :

   a) Homology modeling methods for prediction of protein structure. (8)

   b) Assay development for hit identification. (7)

3. a) Explain in detail various Structure and Pharmacophore based approaches used for rational drug design. (9)

   b) Give a comparative note on rational and traditional drug design approaches. (6)

4. Comment upon : (5*3)

   a) De novo drug design

   b) Hansch analysis

   c) SAR *vs* QSAR.

5. Give a detailed explaination of basic concept behind the design of prodrugs. Comment upon various types of prodrugs. Examplify prodrugs used to improve patient compliance, drug solubility, drug absorption and distribution. (15)

6. Describe the following : (5*3)

   a) Pharmacophore mapping

   b) Transgenic animals in drug discovery

   c) Combinatorial chemistry.

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