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Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmacology) (Sem.-2)
CLINICAL RESEARCH & PHARMACOVIGILANCE

Subject Code : MPL-204T

M.Code : 74946

Date of Examination : 14-06-2025

Time : 3 Hrs.

Max. Marks: 75

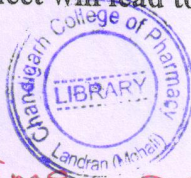
INSTRUCTIONS TO CANDIDATES :

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

1. Discuss about ethical principles governing informed consent process, patient information sheet, informed consent form and documentation.
2. Discuss about the factors influencing, special provisions, storage space requirements, sterile and aseptic area in a plant layout.
3. Enlist various types and designs of clinical trials. Discuss in detail about Cohort, Case control and Cross-sectional studies.
4. Define and classify types of adverse drug reactions. Discuss about their detection and reporting methods.
5. Describe the objective, contents of a case report form and clinical study report in a clinical trial. Discuss about safety monitoring in a clinical trial.
6. Discuss in detail about evaluation of medication safety and establishing pharmacovigilance centres in Hospitals.

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(S31) - 1323

JUNE - 2025

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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 : 28-05-2025

Time : 3 Hrs.

Max. Marks: 75

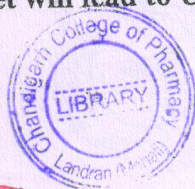
INSTRUCTIONS TO CANDIDATES :

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

1. a. Discuss the economics of drug discovery.
b. Explain the role of genomics in drug target identification.
c. Discuss target validation step in drug discovery.
2. a. Discuss the role of combinatorial chemistry in drug discovery and its advantages over traditional methods.
b. Compare and contrast Threading and Homology modeling.
c. Role of Ramachandran plot in protein structure evaluation.
3. a. What is the random screening method of traditional drug designing? Give its disadvantages.
b. What is Pharmacophore based virtual screening? Give its advantages and disadvantages in lead identification.
4. a. What are advantages of *de novo* drug designing?
b. What are the advantages of docking based screening over Pharmacophore based?
c. Explain Hansch QSAR model.
5. a. Describe principle and methodology of CoMFA.
b. Describe PLS analysis and its advantages over other regression analysis.
6. a. Describe the practical consideration of Prodrugs designing.
b. Describe the applications of prodrugs designing in site specific drug delivery with examples.
c. What are the ideal properties of pro-moiety used in prodrugs designing?

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(S31) - 982

June - 2025

Roll No.

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Total No. of Pages : 01

Total No. of Questions : 06

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

PHARMACOLOGICAL & TOXICOLOGICAL SCREENING

Subject Code : MPL-202T

M.Code : 74944

Date of Examination : 24-05-2025

Time : 3 Hrs.

Max. Marks: 75

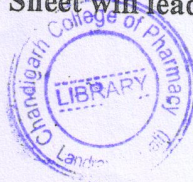
INSTRUCTIONS TO CANDIDATES :

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

1. Discuss in detail about general principles of good laboratory practice.
2. a) Write a note on document requirement as per Schedule Y for carrying out the clinical trial of a new drug in India? (8)
b) Write a note on IND and its importance. (7)
3. a) Write a note on ICH guidelines for conducting toxicity studies. (8)
b) Describe OCED guidelines for oral toxicity studies. (7)
4. Write short notes on following :
a) Reproductive toxicological studies. (8)
b) Carcinogenicity studies (7)
5. a) Add a note on safety pharmacology for CVS and respiratory system. (8)
b) Describe acute eye irritation toxicity study under OECD guidelines. (7)
6. a) Write a note on toxicokinetics and its applications in drug development process. (8)
b) Explain hERG assay and its importance. (7)

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June - 2025

Roll No.
Total No. of Questions : 13

Total No. of Pages : 02

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

Subject Code : MPL-201T

M.Code : 74943

Date of Examination : 21-05-2025

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. All questions from Section-A. Each question carries TWO marks.
2. Attempt any TWO questions from Section-B. Each question carries TEN marks.
3. Attempt any SEVEN questions from Section-C. Each question carries FIVE marks.

SECTION - A

1. Answer the following :

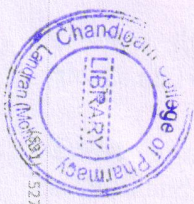
- a) Define immunomodulators.
- b) Enlist drugs used for morning sickness.
- c) Define oxidative stress.
- d) What is the use of beta blockers in thyroid storm?
- e) Discuss uses of bromocriptine.
- f) Differentiate between T3 and T4.
- g) Give names of Parenteral anti hyperglycemic agents.
- h) Enlist adverse effects of aminoglycosides.
- i) Mention two recent advances in management of cancer.
- j) What are combined oral contraceptives?

SECTION - B

2. Define hyperthyroidism. Classify anti thyroid drugs. Explain mechanism of action and uses of peroxidase inhibitors.
3. What is asthma? Write mechanism of action of methylxanthine and bronchodilators. Write special types of asthma induced and their management.
4. Classify immuno suppressants. Write uses and adverse effects of proliferation signal transduction and calcineurin synthesis.

SECTION - C

5. Drugs used for treatment of chemotherapy and radiation induced vomiting.
6. Discuss pharmacotherapy for irritable bowel syndrome.
7. Define absorption. Write factors affecting insulin absorption.
8. Discuss drugs used to treat acromegaly.
9. Classify different glucocorticoids. Mention their effects on CVS, CNS and GIT.
10. Write a note on aromatase inhibitors.
11. Define hypersensitivity. Discuss hypersensitivity reactions.
12. Discuss advance managements for treatment of Alzheimer's disease.
13. a) Classify anti diarrheal drugs.
b) Write chemotherapy for peptic ulcers.



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