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Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmacy Practice) (Sem.-1)

CLINICAL PHARMACY PRACTICE

Subject Code : MPP 101T

M.Code : 79243

Date of Examination : 09-06-2026

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

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

1. Describe the objectives of pharmacovigilance, hemovigilance & materiovigilance programs of India.
2. (a) Describe various sources of drug information.
(b) Describe the systematic approach in answering medicine information queries.
3. Describe various techniques for planning Pharmaceutical Care in detail.
4. Briefly describe the following:
(a) Hematological tests
(b) Significance of patient's case history in drug therapy management
(c) Applications of communication skills in patient care services
5. Describe the following:
(a) Lab function tests for diagnosing hypothyroidism
(b) Microbial culture sensitivity tests
6. Write short note on the following:
(a) Documentation and quality assurance of clinical pharmacy services
(b) International scenario of clinical pharmacy
(c) Organization of Drug and Poison information Centre

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May-2026

Roll No.

Total No. of Pages : 02

Total No. of Questions : 13

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

PHARMACOEPIDEMIOLOGY & PHARMACOECONOMICS

Subject Code : MPP204T

M.Code : 79833

Date of Examination : 21-05-2026

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

I. Answer the following questions:

- a) Write briefly about postmarketing surveillance.
- b) Write about record linkage system and its uses and applications.
- c) Write about cost of Illness.
- d) Write briefly about discounting and willingness to pay.
- e) Write briefly about QALY.
- f) Write about cost effective analysis.
- g) Write about cost Utility analysis.
- h) Write briefly about attributable risk and relative risk.
- i) Write a note on medication adherence measurements.
- j) Write about time trade off.

SECTION-B

2. Define Pharmacoepidemiology. Discuss its importance, aims and applications. Discuss the various quantitative models used in pharmacoepidemiological studies.
3. Define Health Related Quality Of Life (HRQOL). Discuss the common HRQOL measures and explain the need for its measurement.
4. Enumerate various Types of Outcomes. What is the ECHO model? Explain.

SECTION-C

5. List out various drug use indicators. Describe any two in detail.
6. Compare and contrast between Cohort and case control studies.
7. Outline the steps involved, advantages, and disadvantages of Cost Minimization Analysis.
8. Write a short note on Prescription Event monitoring.
9. Discuss steps involved in Cost Benefit Analysis (CBA) with its advantages and disadvantages.
10. Write a short note on: Spontaneous Reporting System.
11. Describe Markov modelling with its application.
12. Discuss – Number of prescriptions, Units of drug dispensed and Defined Daily Dose (DDD) as drug use measures.
13. Discuss the applications of Pharmacoeconomics.

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Total No. of Pages : 02

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

CLINICAL PHARMACOKINETICS AND THERAPEUTIC DRUG MONITORING

Subject Code : MPP203T

M.Code : 79832

Date of Examination :18-05-2026

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) Define creatinine clearance and describe various methods of measuring renal clearance.
(b) Define Bioavailability and describe various methods of determining Area Under Curve for calculating bioavailability.
2. (a) Define pharmacogenetics and describe genetic polymorphism in drug transport system with suitable examples.
(b) Define drug-drug interactions and describe mechanisms of pharmacokinetic drug interactions.
3. Describe the indications and protocol for therapeutic drug monitoring (TDM). Discuss pharmacokinetic aspects for conducting TDM of valproic acid.
4. Describe the following using non-linear mixed effect modelling approach:
(a) Modeling Random effects and covariate relationship
(b) Violation of Model assumptions and Model Validation
5. Write a short note on the following:
(a) Factors affecting dose adjustment in obese patients
(b) Methods of dose adjustments in renal impairment



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- (c) Factors affecting size of loading dose and maintenance dose
6. Describe the following:
 - (a) Bayesian probability theory
 - (b) Individualized drug dosage regimen
 - (c) Applications of clinical pharmacokinetics

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Total No. of Questions : 13

M.Pharmacy (Pharmacy Practice) (Sem.-2)
PRINCIPLES OF QUALITY USE OF MEDICINES

Subject Code : MPP201T

M.Code : 79830

Date of Examination : 11-05-2026

Time : 3 Hrs.

Max. Marks: 75

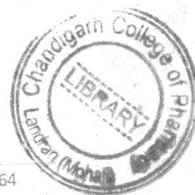
2. Explain the concept of 'Evidence Based Medicine' and discuss the approach and practice of Evidence based Medicine in Clinical settings.
3. Define and classify Adverse Drug Reactions (ADR), discuss the predisposing factors for ADRs and methods of their detection.
4. What is quality use of medicines? Explain the objectives and principles of quality use of medicines.

SECTION-C

5. Write a short note on strategies to promote Quality Use of Medicines (QUM).
6. Write QUM in prescribing for Organ failure patients.
7. Describe the causes, prevention and management of medication errors
8. Discuss briefly about cost effective prescribing process.
9. Write a note on strategies to promote the QUM.
10. Write a note on Prescribing practice of drugs in geriatrics.
11. Write a note on role of Pharmacist in prevention and managing medication errors.
12. Write a note on role of industry in QUM in medicine department.
13. Role of community pharmacists at Over the Counter (OTC) in QUM.

SECTION-A

1. Explain the following :
- Write briefly about responsibilities of key partners in Quality Use of Medicines.
 - Define and categorize the medication errors.
 - Write about Building blocks in QUM.
 - Write briefly about quality use of medicine in hospital settings.
 - Define adverse effect and adverse event.
 - Define Naranjo's scale and its significance.
 - Define essential drugs and their significance.
 - Write about prescribing guidelines for immune compromised and organ failure patients.
 - Enlist the drugs included under Opioid analgesic Drugs in essential drug list.
 - Write briefly about regulations for complimentary medicines.



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

PHARMACOTHERAPEUTICS-II

Subject Code : MPP-202T

M.Code : 79831

Date of Examination : 14-05-2026

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) Define and classify anxiety disorders. Briefly describe role of benzodiazepines in management of anxiety.
(b) Classify anti-Parkinson's drugs. Describe therapeutic management of Parkinson's disease.
2. Differentiate between the following:
(a) Lab diagnosis, clinical characteristics and disease presentation in acute and chronic renal failure.
(b) Clinical features and pharmacological management of Migraine and Tension type headache.
3. (a) Briefly describe pharmacotherapeutic management of Meningitis.
(b) Classify fungal infections. Describe clinical features and therapeutic management of systemic fungal infections.
4. (a) Describe symptoms, clinical features, and drug therapy of Rheumatic fever.
(b) Describe indications and contra-indications of Hormone replacement therapy.
5. Describe current therapeutic approaches and role of 99DOTS program in management of TB.

6. Write a short note on the following:

- Pharmacotherapy of breast cancer.
- Palliative care in cancer management.
- Chemotherapy induced nausea and vomiting.

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