

Roll No.

Total No. of Questions : 13

Total No. of Pages : 02

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

PHARMACOEPIDEMOLOGY & PHARMACOECONOMICS

Subject Code : MPP204T

M. Code : 79833

Time : 3 Hrs.

Date of Examination : 14-06-2025

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 has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

1. Write in brief:

- a. Define prevalence and incidence rate.
- b. Write about defined daily doses and prescribed daily doses.
- c. Write briefly about time trade off.
- d. Write briefly about person time and willingness to pay.
- e. Write briefly about DALY.
- f. Write about Odd's ratio.
- g. Write about cost minimization analysis.
- h. Write about cost consequences analysis.
- i. Write about SF 36.
- j. Write about Incremental Cost Effective Ratio.

SECTION - B

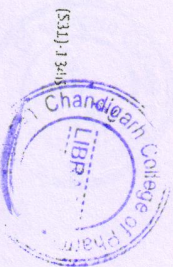
2. Discuss in detail about various types of drug use outcome measures.
3. Discuss in detail about cost categorization and resources for cost estimation.
4. Define medication adherence and reasons for non adherence. Discuss in detail the various methods to measure and improve medication adherence.

SECTION - C

5. What is record linkage? Describe the methods used for and the applications of record linkage studies.
6. Discuss in detail about concept of risks and its types.
7. Discuss in detail about Meta analysis.
8. What is Pharmacoepidemiology? Discuss the applications of Pharmacoepidemiology.
9. Explain ECHO in the context outcome measurement.
10. Explain the estimation of Cost of Illness with suitable example.
11. Describe cost benefit analysis.
12. Write a short note on Spontaneous reporting system.
13. Explain the importance of Decision tree analysis in Pharmacoeconomics.

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June - 2025

Total No. of Pages : 02

Total No. of Questions : 06

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

CLINICAL PHARMACOKINETICS AND THERAPEUTIC DRUG MONITORING

Subject Code : MPP203T

M.Code : 79832

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.

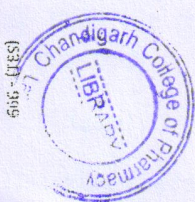
- 1 a) Define hepatic extraction ratio and describe various models of hepatic clearance.
 - b) Draw and explain Stiersback-Nelson and Traub & Johnson nomograms for finding creatinine clearance.
 - 2 a) Define pharmacogenomics and describe genetic polymorphism in Cytochrome P-450 drug metabolizing isoenzymes with suitable examples.
 - b) Define population pharmacokinetics and describe two practical approaches to analyze population pharmacokinetics data.
 3. Describe the following :
 - a) Fixed and adaptive model for designing dosage regimen.
 - b) Applications of Pharmacokinetics software.
 4. Describe the need and factors affecting dose adjustments in following conditions :
 - a) Pregnancy
 - b) Dialysis
 - c) Obesity
- 

5. Describe the following :
 - a) Basis of pharmacokinetic pharmacodynamic correlation in drug therapy.
 - b) Pharmacokinetic aspects of planning therapeutic drug monitoring of Gentamicin.
 - c) Indications for therapeutic drug monitoring.
6. Write a short note on the following :
 - a) Dose determination while conversion from intravenous to oral dosing regimen.
 - b) Sources of Variability in Individualization of drug dosage regimen.

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Total No. of Pages : 01

Total No. of Questions : 06

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

PHARMACOTHERAPEUTICS-II

Subject Code : MPP-202T

M.Code : 79831

Date of Examination : 24-05-2025

Time : 3 Hrs.

Max. Marks: 75

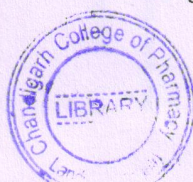
INSTRUCTIONS TO CANDIDATES :

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

1.
 - a) Classify urinary tract infections. Describe symptoms and management of recurrent UTI.
 - b) Describe general guidelines for rational use of antibiotics.
2.
 - a) Describe the causes, sign and symptoms of Parkinson's disease and Alzheimer's disease.
 - b) Classify anti-epileptic drugs and describe their role in treatment of resistant epilepsy.
3. **Describe therapeutic management of following conditions :**
 - a) Drug induced psychiatric disorders.
 - b) Drug induced renal diseases.
4.
 - a) Describe the etiology, laboratory and clinical features of bacterial endocarditis.
 - b) Differentiate between clinical features, sign, symptoms and diagnosis of Malaria and Dengue.
5. **Describe the following :**
 - a) Pathophysiology of dysmenorrhea.
 - b) Indications and contra-indications of Hormone replacement therapy
6. Describe general principles of cancer chemotherapy and management of chemotherapy induced nausea and vomiting.

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Total No. of Pages : 02

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

Subject Code : MPP201T

M. Code : 79830

Time : 3 Hrs.

Date of Examination : 21-05-2025

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.

1. Explain the following :

- a. Define adverse reactions and adverse events.
- b. Define OTC drugs.
- c. Enlist the drugs included under Non-opioid Analgesics, Antipyretics and Non-steroidal-Anti inflammatory Drugs in essential drug list.
- d. Write briefly about Impact of QUM on E health.
- e. Why OTC drugs need to be regulated?
- f. Write briefly about cost effective prescribing.
- g. Write a note on ambulatory care.
- h. Write briefly about key partners in Quality use of medicines.
- i. Write a note on evaluation process in QUM.
- j. Define pharmacovigilance and its importance.

SECTION - B

2. Define rational drug use. Discuss the factors affecting rational drug use and methods to improve rational use of drugs.
3. Define Medication Errors and describe its various categories. Discuss the strategies to avoid Medication Errors.
4. Define Evidence Based Medicine. Explain the five steps involved in the process of Evidence based medicine.

SECTION - C

5. Write a note on impact of quality use of medicine on integrative medicine and multidisciplinary care.
6. Write a note on National essential drug policy and list.
7. Write a note on role of health care professionals in promoting the QUM.
8. Write a short note on- 'Role of Pharmacist in Rational Drug Use'
9. Write a note on prescribing practice of drugs in pediatrics.
10. Write a note on role of pharmacist in pharmacovigilance.
11. Briefly explain QUM in prescribing pregnancy and lactation
12. Write a note on regulation of complementary medicines in India
13. What is causality assessment of ADR and discuss about various methods and measurements used for assessment of ADRs?

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