

ADICHUNCHANAGIRI UNIVERSITY

M.Pharmacy II Semester Examination – December 2021

TIME: 3 HOURS

MAX.MARKS: 75 MARKS

Sub: Principles of Quality Use of Medicines

Q P Code:- 43201

- INSTRUCTIONS:**
1. Your answer should be specific to the questions asked.
 2. Write legibly.
 3. Write the same question numbers as they appear in this question paper.
 4. Draw neat labelled diagrams wherever necessary.

Long Essay (Answer any three)

3X10=30

1. Explain the approach and practice of evidence-based medicine in clinical setting.
2. Explain the quality use of medicines in pregnancy and lactation population.
3. Definition, concept of rational use of drugs and how it is important.
4. Write the causes of medication errors. Explain on the role a pharmacist in management of medication errors.

Short Essays (Answer any nine)

9X5=45

5. Discuss on Aim and need for pharmacovigilance.
6. Explain on regulation of Over the Counter Medicines.
7. Discuss on cost effective prescribing.
8. Write a note on Strategies to promote quality use of medicines.
9. Causality assessment of Adverse drug reactions.
10. Explain on quality use of medicine in Hospital settings.
11. Write the prescribing guidelines for geriatric populations.
12. Explain on Management of Adverse Drug Reactions.
13. Explain Quality Use of Medicine on integrative medicine.
14. Quality use of medicine prescribing guidelines for immunocompromised patients.

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Sub: Pharmacotherapeutics II

Q P Code: - 43202

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2. Write legibly.
3. Write the same question numbers as they appear in this question paper.
4. Draw neat labelled diagrams wherever necessary.

Long essay (answer any three)

3X10=30

- 1 Comment on different treatment regimens for Tuberculosis. Write adverse reactions to each drug. Explain multi-drug resistance to Tuberculosis.
- 2 Discuss predisposing factors, clinical presentation, laboratory diagnosis and pharmacotherapy of urinary tract infections.
- 3 Comment on drug-induced psychosis. How Parkinson's disease and schizophrenia are interrelated in biochemical terms?
- 4 Define acute and chronic renal failure, discuss drug induced renal diseases, write a short note on renal dialysis.

Short essays (answer any nine)

9X5=45

- 5 Discuss Pathophysiology of stroke, write a detail on investigations.
- 6 Explain general principles of cancer chemotherapy.
- 7 Write a note on pathophysiology of Alzheimer's disease.
- 8 Explain chemotherapy on lung cancer.
- 9 Pathogens involved in causing fungal infection and their management.
- 10 Write the pharmacotherapy on Dengue fever.
- 11 Explain on palliative care in cancer disease.
- 12 What is the drug of choice for respiratory tract infections.
- 13 Explain on General guidelines for the rational use of antibiotics.
- 14 Write the etiology and pathophysiology on septicemia.

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Sub: Clinical Pharmacokinetics and Therapeutic Drug Monitoring

Q P Code: - 43203

- INSTRUCTIONS:** 1. Your answer should be specific to the questions asked.
2. Write legibly.
3. Write the same question numbers as they appear in this question paper.
4. Draw neat labelled diagrams wherever necessary.

Long essay (answer any three)

3X10=30

- 1 Discuss the factors associated with assessment of loading dose and maintenance dose of digoxin.
- 2 Explain in detail about nomograms and tabulations in designing dosage regimen.
- 3 Discuss in detail about various sources of pharmacokinetic variability.
- 4 Explain on method for conversion from intravenous to oral dosing.

Short essays (answer any nine)

9X5=45

- 5 Discuss on Design of drug dosage regimen for individuals.
- 6 Explain on Drug dosing in the elderly
- 7 Discuss on Therapeutic drug monitoring for vancomycin.
- 8 Write a note on Genetic polymorphism in drug metabolism.
- 9 The drug has a half-life ($t_{1/2}$) 4 hrs, volume of distribution (V_d) 50 L and bioavailability ($F=1$). Calculate the total body clearance (CL_T) after administration of a single oral dose of 400mg.
- 10 Explain on Therapeutic drug monitoring of Gentamicin.
- 11 Write the Drug dosing in the renal failure.
- 12 Explain on Pharmacometrics software.
- 13 Discuss on Bayesian Theory.
- 14 Therapeutic drug monitoring on methotrexate.

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Sub: Pharmacoepidemiology and Pharmacoeconomics

Q P Code: - 43204

- INSTRUCTIONS:** 1. Your answer should be specific to the questions asked.
2. Write legibly.
3. Write the same question numbers as they appear in this question paper.
4. Draw neat labelled diagrams wherever necessary.

Long essay (answer any three)

3X10=30

- 1 Definition, scope, need and aims and applications of Pharmacoepidemiology.
- 2 Definition, steps involved, applications, advantages and disadvantages of cost benefit analysis.
- 3 Definition, history of Pharmacoeconomics, Need of Pharmacoeconomic studies in Indian healthcare system.
- 4 Explain on Applications of decision analysis and sensitivity analysis.

Short essays (answer any nine)

9X5=45

- 5 Discuss on spontaneous reporting.
- 6 What is the difference between Attributable risk and relative risk.
- 7 Discuss on defined daily doses.
- 8 Write a note on Prevalence rate and incidence rate.
- 9 Definition and explain on Meta-analysis with examples.
- 10 Explain on Record linkage systems.
- 11 Write the difference between Direct cost and indirect cost.
- 12 Explain on Applications of Cost Consequences Analysis (COA).
- 13 Describe on Markov Modeling.
- 14 Explain on Cross-sectional studies with examples.
