

Bachelor Level/B.Pharm/First Year/TU/IOM Time: 3 hours  
 Pharmaceutical Chemistry-403A Th. (New Course) Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.  
 Attempt all the questions.

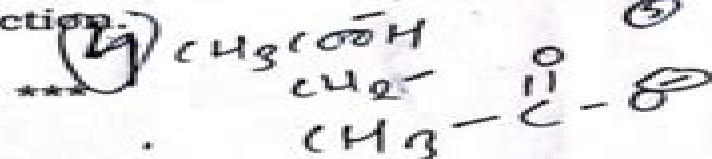
1. What is the importance of limit test and assay determination in pharmaceuticals? How is the limit test of sulphate performed? (5) 4+6=10
2. What is the basic objective of replacement therapy? Explain the method of preparation, test of purity, uses and assay of sodium lactate. (5) 3+7=10
3. Explain the method for conducting assay of: Na<sub>2</sub> 2x5=10
  - a. Potassium permanganate
  - b. Ferric ammonium citrate
4. Define topical agents. Write the applications of protectives, astringents and antimicrobial agents with two suitable examples of each. (5) 2+8=10
5. Explain why aqueous base brings substitution reaction and alcoholic base brings elimination reaction. Explain the mechanism of E1, E2 and E1CB reaction. (5) 4+6=10
6. Give the mechanism for: (5) 2x5=10
  - a. Reaction of ethyl acetate with the mixture of ethanol and sodium ethoxide
  - b. Reaction of two molecules of acetaldehyde in presence of sodium hydroxide
7. Define the following with suitable examples: (5) 4+3+3=10
  - a. Conformational isomers
  - b. Meso compounds
  - c. Optical activity
8. What is meant by electrophilic substitution reaction? Explain the effect of electron releasing and withdrawing groups in electrophilic substitution reaction. Give mechanism for any one of the electrophilic substitution reaction. (5) 2+4+4=10

CO<sub>2</sub>Na

C<sub>6</sub>H<sub>5</sub>

NH<sub>2</sub><sup>+</sup> NH  
 NH<sub>2</sub><sup>+</sup>  
 1020

H-  
 Zn-S



# 3rd Year B Pharmacy Question Paper

**Michael Seilmaier**



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Lokeswara Babu , Mr. Madhu Kumar H.M. , Ms. Sulochana S. A. , Dr. Ruchi Tiwari,2025-05-13 Physical Pharmaceutics I is a fundamental subject in pharmaceutical sciences that provides the foundational knowledge required for understanding drug formulation and delivery This book is designed to introduce students to the core principles governing the physical and physicochemical properties of pharmaceutical substances and their applications in dosage form development The content of this book is structured to cover key concepts such as states of matter solubility distribution phenomena surface and interfacial tension colloidal systems and rheology Each chapter is systematically organized to provide theoretical insights alongside practical applications relevant to pharmaceutical formulation and technology The principles discussed in this book are essential for understanding drug behavior stability and interactions which are critical aspects of designing effective and stable pharmaceutical products **A Textbook of Pharmacology - III** Dr. Gorakshnath V. Paunikar , Dr. Minal Ghule , Dr.

Satnam Singh , Mr. Kirankumar H. Dhawale , Dr. V. Suresh,2025-01-07 It is with great pleasure that we introduce the book Pharmacology III This book has been meticulously designed in accordance with the syllabus prescribed by the Pharmacy Council of India for Bachelor of Pharmacy students Every effort has been made to present the subject matter in a simple easy to understand language To aid comprehension the book includes numerous diagrams and flowcharts that simplify complex concepts for students It is our sincere hope that this book will serve as a valuable resource for both students and academicians We hope this book will receive a positive response from both students and educators Constructive feedback from professionals in the field is welcome and we acknowledge that any errors or omissions are our responsibility We would be grateful if readers bring such issues to our attention *Instrumental Methods of Analysis* Dr. Yedlapalli. Govindarao , Dr. P.R. Vijai Anand, Dr. K. Nithiyananthan , Mr. Nadeem Hasan , Dr. Shrutika D. Patil,2025-04-05 This book Instrumental Methods of Analysis is designed to meet the growing demand for comprehensive knowledge of modern analytical instruments

and their applications It aims to provide students researchers and professionals with a clear understanding of the fundamental principles instrumentation and applications of various analytical techniques The text begins by introducing basic concepts related to measurement and analysis followed by detailed discussions of classical and modern techniques such as spectroscopy chromatography mass spectrometry electroanalytical methods and thermal analysis Each chapter is supplemented with examples illustrations and real world applications to provide practical insights into the functioning and utility of these instruments

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