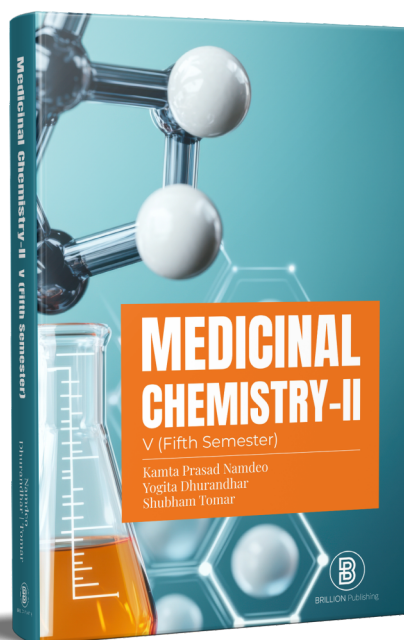




Medicinal Chemistry-II

V (Fifth Semester)

Medicinal Chemistry – V (Fifth Semester) is a well-structured academic textbook developed in accordance with the **PCI-prescribed B.Pharm syllabus**. The book is designed to provide undergraduate pharmacy students with a clear understanding of the **chemical and structural basis of drug action**, focusing on the relationship between chemical structure and pharmacological activity.

The content systematically covers important classes of drugs included in the fifth-semester curriculum, emphasizing **drug classification, chemical structure, synthesis, mechanism of action, structure–activity relationship (SAR), metabolism, and therapeutic uses**. Each topic is presented in a logical and simplified manner to help students understand complex chemical reactions and mechanisms without losing scientific depth.

Special emphasis has been placed on **SAR and medicinal chemistry principles**, which are crucial for understanding rational drug design and optimization. The chemical reactions and mechanisms are explained step by step, enabling students to correlate molecular modifications with changes in biological activity. The language used throughout the book is technical yet student-friendly, making it suitable for both concept building and examination preparation.

The book integrates standard medicinal chemistry concepts with current academic requirements, making it useful for **theory examinations, competitive exams, and foundational research understanding**. Concise explanations, systematic classification, and focused content help students retain key concepts effectively and revise efficiently.

This book also serves as a helpful reference for pharmacy educators, providing structured material for teaching and evaluation. By bridging core chemical principles with therapeutic relevance, **Medicinal Chemistry – V** aims to strengthen students' analytical skills and prepare them for advanced studies in pharmaceutical sciences.

Overall, the book aspires to be a **reliable, syllabus-oriented, and concept-driven guide** that supports pharmacy students in mastering medicinal chemistry and understanding its role in drug discovery and development

Kamta Prasad Namdeo | Yogita Dhurandhar | Shubham Tomar

(Contents)

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