



## ORGANIC CHEMISTRY, Vol-I

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2020	18 x 24	652 pp	Paperback	ISBN: 9789386768582	Price: 745.00
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### About the Book

ORGANIC CHEMISTRY provides a basic input of fundamentals of organic chemistry. It is primarily meant for undergraduate students having chemistry as one of the major subject enrolled in B.Sc courses such as B.Sc (H) chemistry, B.Sc Life Sciences, B.Sc (Physical Sciences) and many more. Organic Chemistry is composed of huge number of molecules whose role is best described by their formulas and structures comprising of atoms, bonds, electrons, charges etc. Thus the challenge lies how their action is well explained on paper. Hence, an initiation is brought through this book which includes the fundamentals of organic chemistry such as what is organic chemistry, structure and bonding, organic reaction mechanism, stereochemistry, aliphatic hydrocarbons and concept of aromaticity. The core content is presented with the skeleton of proposed mechanisms and solved problems.

The book fulfils the requirements of CBCS (Choice based credit system) syllabus followed in different Indian Universities and hence can serve as a text book for students studying in these universities. This book can act as a reference book for students preparing for competitive examination and entrance examinations such as Masters D.U, Masters (Central and State Universities), IIT-JAM, CSIR-JRF, NET, GATE, TIFR, IISc etc as advance knowledge of the essential topics is also encapsulated.

### Salient Features

- Detailed concepts from the scratch to the higher level with the aid of solved problems wherever applicable
- Content equipped with diagrammatic representations, highlighted mechanisms, bulleted information and tables to introduce and reinforce the special topics.
- Emphasis on learning the concepts through problems and solutions.
- Loaded with solved problems at basic and advanced level
- Focus on reasoning rather than memorization
- Written in lucid language and crisp language keeping in mind the interest of reader.
- Additional Multiple Choice based questions for competitive examinations.

### Table of Contents

- Classification and Nomenclature of Organic Compounds
- Structure and Bonding
- Reaction Mechanism
- Stereo Isomerism
- Alkanes
- Conformational Stereoisomerism in Alkanes and Cycloalkanes
- Alkenes (Unsaturated Hydrocarbons)
- Alkynes
- Aromatic Hydrocarbons

### About the Author

**Sonia Ratnani** :- is employed as an Assistant Professor in Department of Chemistry of Ramjas College in University of Delhi. Doctorate in Chemistry from University of Delhi, she has teaching experience of almost sixteen years. She has contributions in various national and international peer reviewed journals. Her success in authorship of few chemistry books add to her recognition. Her interest in research has contributed to two innovation projects funded by University of Delhi.

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