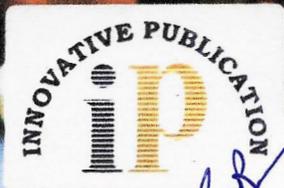


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Textbook of Pharmaceutics II

For Second Year Diploma in Pharmacy



Vipul A. Sansare
Abhijeet M. Kanavaje
Rehan Uddin

PRINCIPAL
ORIENTAL COLLEGE OF PHARMACY



Textbook of Pharmaceutics II



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Textbook of Pharmaceutics II

For Second Year Diploma in Pharmacy

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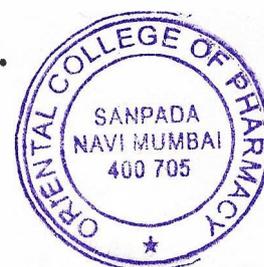
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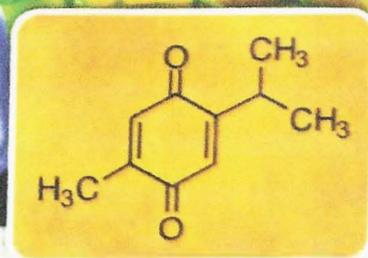
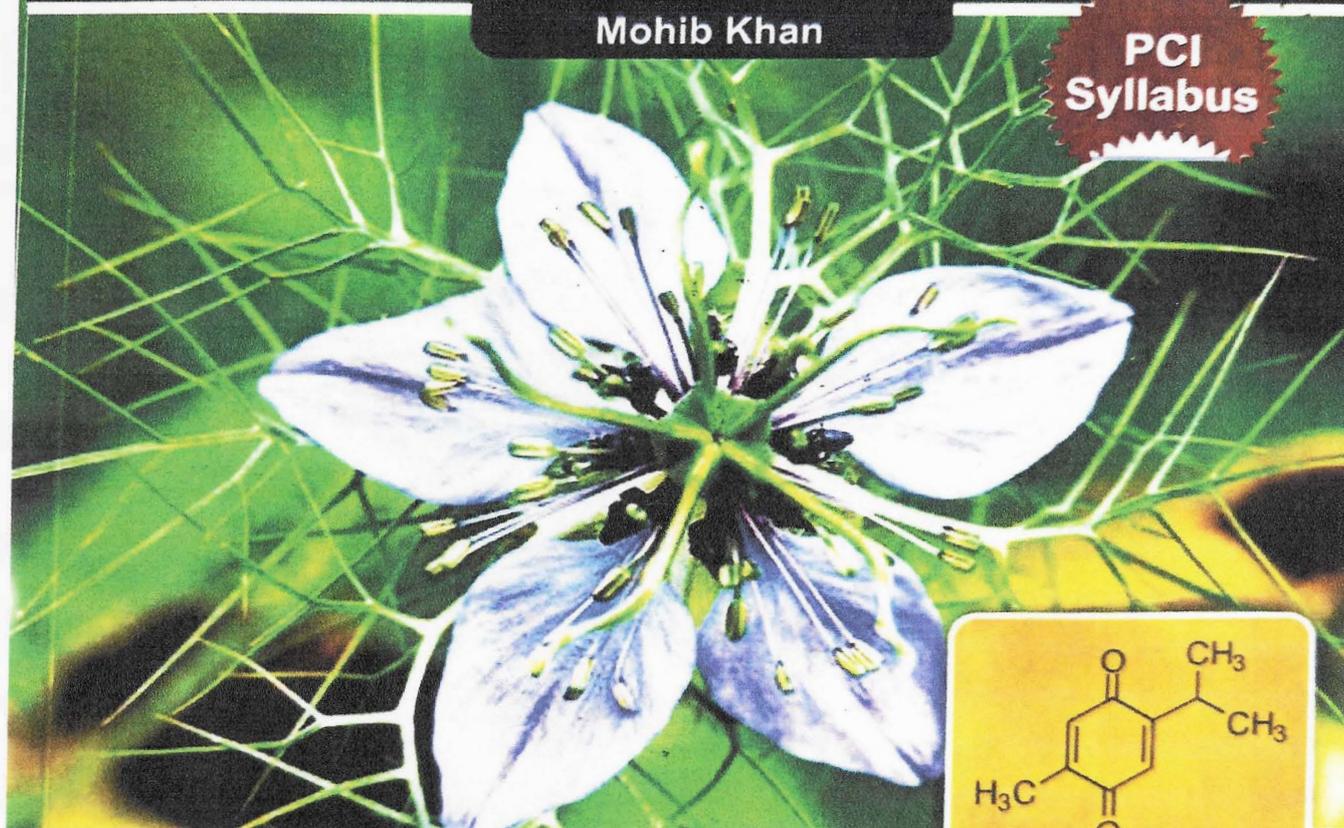


PHARMACOGNOSY AND HERBAL DRUG TECHNOLOGY

First Edition

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Based on PCI Syllabus

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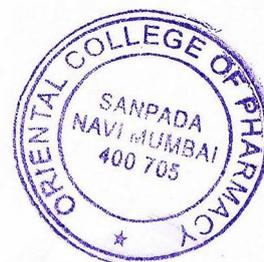
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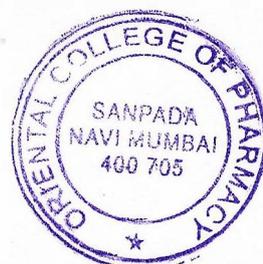
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UNIT

INTRODUCTION TO PHARMACOGNOSY

- (a) Definition, history, scope and development of Pharmacognosy
- (b) Sources of Drugs – Plants, Animals and Marine

Pharmacognosy is study of drugs of natural origin. The term comes from two Greek words: “pharmakon” meaning drug or medicine, and “gnosis” meaning knowledge. **American Society of Pharmacognosy** defines Pharmacognosy as “study of the physical, chemical, biochemical and biological properties of drugs, drug substances or potential drugs or drug substances of natural origin as well as the search for new drugs from natural sources”.

Plant preparations are said to be medicinal or herbal when they are used to promote health beyond basic nutrition. Study of drugs from plants includes the subjects of botany, chemistry and pharmacology. Botany includes the identification (taxonomy), genetics and cultivation of plants. Chemistry or Chemical characterization includes the isolation, identification and quantification of constituents in plant materials. Pharmacology is study of biological effects that chemicals in medicinal plants have on cell cultures, animals and humans.

The renaissance of herbal medicine in this country creates a demand for studies in the field of Pharmacognosy. From a practical perspective this includes:

- Quality control (identity, purity, consistency)
- Efficacy (therapeutic uses, clinical studies, pharmacological investigations)
- Safety (adverse reactions, drug interactions, contraindications, precautions)

About the Book :

The book Pharmacognosy and Herbal Drug Technology, has been divided into major three parts viz. Pharmacognosy & Phytochemistry I for fourth semester, Pharmacognosy & Phytochemistry II for fifth semester and Herbal Drug Technology for sixth semester.

The first part of book contain, Introduction of Pharmacognosy, Evaluation and processing of crude drugs, Plant tissue culture, Traditional systems of medicine, Primary metabolites, Marine Pharmacognosy, Hallucinogens, Teratogens, and Natural allergens.

The second part of book contain, Metabolic pathways, Secondary metabolites, Isolation, identification and analysis of phytoconstituents, Industrial production, estimation and utilization of phytoconstituents and Basics of phytochemistry.

The third part of book contain, Herbs, Biodynamic agriculture, Indian systems of medicine, Nutraceuticals, Herbal Cosmetics, Herbal Excipients, Patenting and regulatory requirements, Introduction to Herbal Industry and GMP of Indian systems of medicine.

The Pharmacy Council of India, New Delhi, has recently implemented this new syllabus for the B.Pharm course all over India. The book completely covers the whole of the new syllabus for Pharmacognosy & Phytochemistry- I, Pharmacognosy & Phytochemistry- II and Herbal Drug Technology.

About the Author :



Dr. Mohib Khan is Vice Principal and Professor of Pharmacognosy and Pharmaceutical Chemistry at Oriental College of Pharmacy, Navi Mumbai.

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He has 27 years of teaching experience where his duty as Principal and Professor at Meseo College of Pharmacy, Hyderabad, was outstanding. He has worked at LCP, Gulbarga; YBCCP, Aurangabad and SBCP, Aurangabad on various positions.

He has guided 11 Ph.D. students. He has to his credit 48 papers published at national and international levels. He has received Research grants from Mumbai University. He has written a book, titled, Natural Product Chemistry, published by Career Publication.

He had organized two National Symposia and one State Seminar, at Oriental College of Pharmacy, Navi Mumbai, of which one was financed by Department of AYUSH, Ministry of Health and Family Welfare, Government of India.

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