

Pharmacognosy Ck Kokate

Pharmacognosy

We are very pleased to put forth the 'Laboratory Manual of Pharmacognosy and Phyto chemistry II'. This manual is prepared as per PCI B. Pharm course regulations 2014 and is divided into four sections i.e detection of crude drugs with morphology, histology, powder characteristics; isolation and detection of phyto constituents; isolation of phyto constituents by chromatography techniques and analysis of crude drugs by chemical tests. The traditional as well as modern methods used for identification of crude drugs, isolation methods of phyto constituents and their detection are included in this manual. This manual is designed for 'outcome-based education' and each experiment is arranged in a uniform way such as practical significance, practical outcomes (PrOs) and its mapping with course outcomes, theory, resources used, procedure, precautions, observations, result, conclusion, references, and synopsis questions. Each experiment offers an opportunity to perform practical work, allowing students to gain proficiency in effectively managing equipment, handling glassware, chemicals and staining agents/ reagents, and writing conclusion. In addition, questions are provided at the end of the experiments to enhance students' knowledge, which will be beneficial for them as they pursue higher studies. During the laboratory period you will have to multitask, while you are doing experiment. It is essential to document properly what you do and what you observe while doing the practical. Always plan your work ahead and think about what you are doing, why you are doing it, what is happening and what you can conclude from your experiment. We acknowledge the help and co-operation extended by various persons in bringing out this manual. We are highly indebted to the authors of various books and articles mentioned in the reference which became a major source of information for writing this manual. We also thank the publishers, designers and printers who graciously worked hard to publish this manual in time. We hope that this manual will assist students in understanding concepts, principles, and performing procedures. We wish you all the best!\

Practical Pharmacognosy

This book is a robust attempt to furnish the latest scientific information for any multidisciplinary research team engaged in plant drug research. It focuses on the medicinal plants used in various pharmaceutical formulations and presents a few of newer aspects of herbal drug research. The utility of the book lies in its versatility through which it has covered a wide spectrum of research activities in the field of herbal drugs. The book will help academicians, researchers and industry leaders get every possible vital information in a single volume.

Pharmacognosy

The book "Herbal Drug Technology" has been carefully designed to provide a comprehensive and systematic understanding of medicinal plants and their applications in modern pharmaceutical sciences. Aligned with the syllabus prescribed by the Pharmacy Council of India, this book aims to serve as a reliable academic resource for undergraduate pharmacy students, particularly those pursuing courses in pharmacognosy and phytopharmacy. The content of the book covers fundamental as well as advanced concepts related to herbal drugs. It begins with an introduction to herbs, herbal medicines, and herbal medicinal products, followed by detailed discussions on the sources of medicinal plants and their classification. Special emphasis has been given to the selection, identification, and authentication of crude drugs, which are crucial steps in ensuring the quality and safety of herbal formulations. The book also elaborates on the cultivation and processing of medicinal plants, incorporating modern approaches such as organic farming, biodynamic agriculture, and Good Agricultural and Collection Practices (GACP). It further highlights pest management strategies and sustainable harvesting techniques, ensuring environmental and economic viability. A significant portion of the book is dedicated to the extraction, isolation, and standardization of phytoconstituents. Various extraction techniques, including traditional and modern methods, have been explained in a student-friendly manner. The importance of quality control and standardization has been emphasized with reference to regulatory guidelines such as those under the Drugs and Cosmetics

Act, 1940, ensuring compliance with safety and efficacy standards. In addition, the book addresses regulatory aspects, including Good Manufacturing Practices (GMP) and the role of AYUSH systems in India. It provides insights into the evaluation of herbal drugs, including pharmacological and toxicological considerations, thereby promoting evidence-based use of natural products. Designed with a clear, structured, and exam-oriented approach, the book includes tables, diagrams, and simplified explanations to enhance student understanding. It aims not only to build theoretical knowledge but also to develop practical skills required in the field of herbal drug technology. Overall, this book serves as a valuable guide for students, educators, and professionals, contributing to the advancement of herbal medicine and its integration into modern healthcare systems.

Laboratory Manual of Pharmacognosy and Phytochemistry II

Pharmacognosy\ is a Greek word, derived from pharmakon means drug, and gnosis means knowledge. It is the study of the crude drugs produced from natural sources such as plants, animals and minerals including their morphological, chemical, and biological properties as well as history, cultivation, collection, extraction, isolation, bioassay, and their standardization for biological, chemical, biochemical, and physical properties. The objective of the study of "pharmacognosy" is for safe use of herbal drugs including their side effects, toxicity, drug interaction, etc thereby increasing effectiveness in modern medicine. Like any other scientific area, since the introduction of Pharmacognosy some 200 years ago, it has evolved over the years, and now Pharmacognosy can be defined as the science of biogenic or naturally derived drugs, pharmaceuticals and poisons. Various modern analytical techniques are used to authenticate and standardization of the crude drugs. De materia medica is a pharmacopoeia of medicinal plants written by Dioscorides between 50 and 70 CE in which about 600 plants are placed. Keeping the requirements of the curriculum for the students of Bachelor of Pharmacy and Diploma in Pharmacy under Pharmacy Council of India in view, the authors of Concise Encyclopedia of Herbal Drugs have put a small effort to bring 134 herbal drugs with their synonym, biological name, family, source, uses, chemical constituents, chemical identification tests, adulterant, picture of the drug and the chemical structure of one of the major constituents with this book. Pictures are collected from search engine google. The chemical structures of the phyto constituents are drawn using software Chemdraw version 12.0. As the monograph of the herbal drugs too difficult to memorize so the authors concise the monograph and along with provided a large coloured picture of the drug to make it attractive for the students to read and memorize. It would be grateful to the readers if they draw the attention to the deficiencies and errors that might have remained. We express our sincere gratitude to all who have extended their cooperation and help in completion of this book. Hope, this book would be well accepted by the students and teacher community.

HERBAL DRUG TECHNOLOGY (THEORY AND PRACTICALS): A TEXT BOOK OF HERBAL DRUG TECHNOLOGY

Quality Control in Pharmacy - Errors in Analysis - Impurities in Pharmaceutical Substances and Limit Tests - Water - Solubility of Pharmaceuticals - Acids, Bases and Buffers - Antioxidants - Gastrointestinal Agents - Topical Agents - Dental Products - Inhalants - Expectorants, Emetics and Respiratory Stimulants - Major Intra and Extracellular Electrolytes - Official Compounds of Iron - Official Compounds of Iodine - Official Compounds of Calcium - Radiopharmaceuticals and Contrast Media - Antidotes in Poisoning - Identification Tests for Ions and Radicals - Appendix - Index - Bibliography

HERBAL DRUG TECHNOLOGY

This Book Describes More Than 1346 Medicinal Plants Found In The World. It Includes Vernacular Names, Description, Distribution, Part Use, Utilization, Active Principles, Agronomic Practices And Colour Plates.

Concise Encyclopedia of Herbal Drugs(Quick memorising of the pharmacognostic features)

Contains 30 symposium papers previously published in book forms as :Medicinal and Aromatic Plants, vol. 6: Traditional medicine and nutraceuticals.

Concise Inorganic Pharmaceutical Chemistry (phar.Che-I)

Human Anatomy And Physiology

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