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KEY=PLANT - KYLAN KENDRICK

PLANT TAXONOMY 2E

Tata McGraw-Hill Education

TEXTBOOK OF PLANT TAXONOMY

PLANT TAXONOMY

TAXONOMY OF ANGIOSPERMS

I. K. International Pvt Ltd Taxonomy of Angiosperms is designed for B.Sc. (H) and M.Sc. students of Botany in various universities. The book is divided into two parts; Part I deals with the Principles of Angiosperm Taxonomy and Part II deals with families. The book is amply illustrated with examples. Some of the important chapters in Part I comprise Different Classifications, Nomenclature, Biosystematics, Modern Trends in Taxonomy, Chemotaxonomy, Numerical Taxonomy etc. Part II deals with about 214 families of which 55 are discussed in detail and summarized accounts of the rest are given for advanced students. The book also comes loaded with numerous appendices like comparison of classifications, floral diagrams and floral formulae, questions etc. The book will cater to the needs of Botany students pursuing B.Sc. (H), M.Sc. and related fields like Medical Botany, Pharmacy, Agricultural Botany and Horticulture.

PLANT SYSTEMATICS

AN INTEGRATED APPROACH, FOURTH EDITION

CRC Press This fourth edition of Plant Systematics is completely revised and updated. It incorporates the updated International Code of Nomenclature for Algae, Fungi and Plants (Shenzhen Code, 2018), the new version of PhyloCode (Beta version of PhyloCode 5, 2014), APweb version 14 (September, 2018), revised Angiosperm Phylogeny Group classification (APG IV, 2016), new Pteridophyte Phylogeny Group

Classification (PPG I, 2016), besides the updates since the publication of third edition. The book is a blend of classical fundamental aspects and recent developments, especially in the field of molecular systematics, cladistics and computer identification. Special attention has been given to information on botanical nomenclature, identification, molecular systematics and phylogeny of angiosperms. The complicated concepts of phylogeny, taxometrics and cladistics have been explained with a view to providing a comparison between these diverse but interactive fields of study. An attempt has been made to build upon a common example when exploring different methods, especially in procedures of identification, taxometrics and cladistics. The major systems of classification are evaluated critically. Discussion on major families of Pteridophytes, Gymnosperms and Angiosperms, especially those of major phylogenetic interest, form a major portion of this edition. The ebook includes nearly 500 color photographs set out in 36 pages covering plants from different parts of the world. In addition, 305 black & white illustrations have been included to provide a better understanding of the plants covered in the book.

PLANT TAXONOMY

THE SYSTEMATIC EVALUATION OF COMPARATIVE DATA

Columbia University Press The field of plant taxonomy has transformed rapidly over the past fifteen years, especially with regard to improvements in cladistic analysis and the use of new molecular data. The second edition of this popular resource reflects these far-reaching and dramatic developments with more than 3,000 new references and many new figures. Synthesizing current research and trends, Plant Taxonomy now provides the most up-to-date overview in relation to monographic, biodiversity, and evolutionary studies, and continues to be an essential resource for students and scholars. This text is divided into two parts: Part 1 explains the principles of taxonomy, including the importance of systematics, characters, concepts of categories, and different approaches to biological classification. Part 2 outlines the different types of data used in plant taxonomic studies with suggestions on their efficacy and modes of presentation and evaluation. This section also lists the equipment and financial resources required for gathering each type of data. References throughout the book illuminate the historical development of taxonomic terminology and philosophy while citations offer further study. Plant Taxonomy is also a personal story of what it means to be a practicing taxonomist and to view these activities within a meaningful conceptual framework. Tod F. Stuessy recalls the progression of his own work and shares his belief that the most creative taxonomy is done by those who have a strong conceptual grasp of their own research.

ALGAE

PLANT TAXONOMY

PAST, PRESENT, AND FUTURE

The Energy and Resources Institute (TERI) Prithipalsingh, Indian taxonomist; contributed articles.

PLANT SYSTEMATICS

THEORY AND PRACTICE

ECONOMIC BOTANY

S. Chand Publishing For The Students of B.Sc. , M.Sc. and Competitive Examinations

FLOWERING PLANTS · DICOTYLEDONS

MALVALES, CAPPARALES AND NON-BETALAIN CARYOPHYLLALES

Springer Science & Business Media This encyclopedia contains a comprehensive treatment of the taxonomy of the families and genera of ferns and seed plants. The present volume, the fifth in this series, deals with three major groups of dicotyledons, the Capparales, Malvales, and Non-betalain Caryophyllales.

RECENT ADVANCES IN TAXONOMY

THE HERBARIUM

Contributed articles.

PLANT TAXONOMY AND BIOSYSTEMATICS

CLASSICAL AND MODERN METHODS

ECONOMIC BOTANY

Cambridge University Press "Provides vivid information about the history of plant exploration, migration, domestication, distribution and crop improvement"--

ANGIOSPERMS, HISTOLOGY, ANATOMY AND EMBRYOLOGY

EDUCATIONAL PUBLISHERS & DISTRIBUTORS It gives us great pleasure to present the book – “Angiosperms, Histology, Anatomy and Embryology” which is based on UGC model curriculum and as per B. Sc. Botany syllabus of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. According to the First Year B. Sc. Botany syllabus the portion Morphology of Angiosperms is for first semester while for second semester Histology, Anatomy and Embryology topics are included. This book is revision of the earlier book published in print form and idea behind publishing this e-book is that students can get the study material at home. So, whole subject matter has been divided into five chapters. The text is written in simple language which can easily be grasped by students. To make subject easy and understandable, profusely illustrated and self-explanatory diagrams have been added, which are drawn by

Miss. Sakshi Sharma. While writing the plant names as examples more popular names (which may be botanical name or may be English name) have been provided for the convenience of students.

STRAWBERRIES

PRODUCTION, POSTHARVEST MANAGEMENT AND PROTECTION

CRC Press This book provides unparalleled integration of fundamentals and most advanced management to make this strawberry crop highly remunerative besides enhancing per capita availability of fruit even in the non-traditional regions of the world.

PRACTICAL BOTANY

Deep and Deep Publications 1. Introduction to Laboratory 2. Experiments in Plant Physiology 3. Biochemistry 4. Biotechnology 5. Ecology 6. Plant Utilization 7. Project Reports Appendix.

GENETIC RESOURCES, CHROMOSOME ENGINEERING, AND CROP IMPROVEMENT

MEDICINAL PLANTS

CRC Press Medicinal Plants, Volume 6 of the Genetic Resources, Chromosome Engineering, and Crop Improvement series summarizes landmark research and describes medicinal plants as nature's pharmacy. Highlights Examines the use of molecular technology for maintaining authenticity and quality of plant-based products Details reports on individual medicinal plants including their history, origin, genetic resources, cytogenetics, and varietal improvement through conventional and modern methods, and their use in pharmaceutical, cosmeceutical, nutrition, and food industries Explains how to protect plants with medicinal properties from deforestation, urbanization, overgrazing, pollution, overharvesting, and biopiracy Brings together information on germplasm resources of medicinal plants, their history, taxonomy and biogeography, ecology and biodiversity, genetics and breeding, exploitation, and utilization in the medicine and food industries Written by leading international experts and an innovative panel of scientists, Medicinal Plants offers the most comprehensive and up-to-date information on medicinal plant genetic resources and their increasing importance in pharmaceutical and cosmeceutical industries, medicine, and nutrition around the world. Includes eight-page color insert more than 25 full color figures

PHYTOPATHOGENIC BACTERIA AND PLANT DISEASES

CRC Press The field of Phytobacteriology is rapidly advancing and changing, because of recent advances in genomics and molecular plant pathology, but also due to the global spread of bacterial plant diseases and the emergence of new bacterial diseases. So, there is a need to integrate understanding of bacterial taxonomy, genomics, and basic plant pathology that reflects state-of-the-art knowledge about

plant-disease mechanisms. This book describes seventy specific bacterial plant diseases and presents up-to-date classification of plant pathogenic bacteria. It would be of great help for scientists and researchers in conducting research on ongoing projects or formulation of new research projects. The book will also serve as a text book for advanced undergraduate and postgraduate students of disciplines of Phytobacteriology and Plant Pathology. Contains latest and updated information of plant pathogenic bacteria till December 2018 Describes seventy specific bacterial diseases Presents classification of the bacteria and associated nomenclature based on Bergey's Manual Systematic Bacteriology and International Journal of Systematic and Evolutionary Microbiology Discusses practical and thoroughly tested disease management strategies that would help in controlling enormous losses caused by these plant diseases Reviews role of Type I-VI secretion systems and peptide- or protein-containing toxins produced by bacterial plant pathogens Briefs about plants and plant products that act as carriers of human enteric bacterial pathogens, like emphasizing role of seed sprouts as a common vehicle in causing food-borne illness

Dr B. S. Thind was ex-Professor-cum-Head, Department of Plant Pathology, Punjab Agricultural University Ludhiana, India. He has 34 years of experience in teaching, research, and transfer of technology. He has conducted research investigations on bacterial blight of rice, bacterial stalk rot of maize, bacterial blight of cowpea, bacterial leaf spot of green gram, bacterial leaf spot of chillies and bacterial soft rot of potatoes. He also acted as Principal Investigator of two ICAR-funded research schemes entitled, "Detection and control of phytopathogenic bacteria from cowpea and mungbean seeds from 1981 to 1986 and "Perpetuation, variability, and control of *Xanthomonas oryzae* pv. *oryzae*, the causal agent of bacterial blight of rice" from 1989 to 1993, and also of a DST funded research scheme "Biological control of bacterial blight, sheath blight, sheath rot, and brown leaf spot of rice" from 1999 to 2002. He also authored a manual entitled, "Plant Bacteriology" and a text book entitled, "Phytopathogenic Prokaryotes and Plant Diseases" published by Scientific Publishers (India). He is Life member of Indian Phytopathological Society, Indian Society of Plant Pathologists, Indian Society of Mycology and Plant Pathology, and Indian Science Congress Association.

PLANT TAXONOMY

THE SYSTEMATIC EVALUATION OF COMPARATIVE DATA

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studies with suggestions on their efficacy and modes of presentation and evaluation. This section also lists the equipment and financial resources required for gathering each type of data. References throughout the book illuminate the historical development of taxonomic terminology and philosophy while citations offer further study. Plant Taxonomy is also a personal story of what it means to be a practicing taxonomist and to view these activities within a meaningful conceptual framework. Tod F. Stuessy recalls the progression of his own work and shares his belief that the most creative taxonomy is done by those who have a strong conceptual grasp of their own research.

BIODIVERSITY, CONSERVATION AND SYSTEMATICS

Scientific Publishers This volume compiles the 'state of the art' knowledge on several aspects of "Biodiversity, Conservation, and Systematics". The International Botanical Community recognizes "that plants create the ecological habitat for all terrestrial organisms, and that their management and conservation depend on a good understanding of their taxonomy". Biodiversity is considered as "an immense economic resource". Its conservation and sustainable use ensures food security, safeguards human health, and provides ecological as well as aesthetic and cultural benefits. Systematics, as a fundamental science, serves as a very important discipline for understanding biodiversity. In this volume, emphasis has been laid on the simplest Prokaryotic organisms, the diverse Algae, the "Adaptive Strategies of Bryophytes and the "Diversity in Pteridophytes". There is stress on the importance of Ethnic Knowledge, Botanic Gardens, and Reproductive Biology in conservation. Interesting aspects of 'Invasive Plant Species', 'Analysis of Plant Biodiversity and Evolution at Genome Level' and 'Leaf Epidermal Diversity in Grasses' are discussed. Detailed accounts of the fauna and flora of Punjab have also been provided. Dr. Prithipalsingh is a Senior Reader in Botany in Kirorimal College. He has been teaching since 1971. The areas of special interest in which he is recognized as an expert include, besides Plant Taxonomy, Biodiversity Studies, Ecology and Environmental Biology. He has published numerous research papers in National and International Journals. Dr. Prithipalsingh served on the National Consultation Committee for discussing the "State of the Environment Report of India 2001" prepared by the United Nations Environment Programme. He has completed a project on "Status of biodiversity conservation in Punjab" for the Punjab Forest Department, as a member of the Tata Energy Research Institute team. As a consultant for Biodiversity with "The Energy Research Institute (TERI)", Dr. Prithipalsingh participated in several World Bank funded research projects of the Uttar Pradesh/Uttaranchal State Forest Department. He has obtained first hand information on the effect of 'fire', 'grazing', 'collection of non-timber forest products' and 'natural regeneration', focusing on the ground realities for evaluating the impact of different parameters necessary for formulating "management recommendations".

TAXONOMY OF ANGIOSPERMS

PLANT SYSTEMATICS

CRC Press This book is designed to introduce the fundamentals of systematics in a simple, concise and balanced manner. The book aims to equip the students with the basics of plant taxonomy and at the same time also update them with the most recent advances in the field of plant systematics. The book has been organized into 21 chapters that introduce and explain different concepts in a stimulating manner. The text is supplemented with relevant illustrations and photographs. Relevant literature has been added to provide a better picture of the most recent updates in the field of plant systematics. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

PLANT TAXONOMY

INTRODUCTION TO THE PRINCIPLES OF PLANT TAXONOMY

Cambridge University Press A revised and fully updated edition encourages the reader to view existing classification systems objectively as it reflects upon the rapid advances that have occurred since the first edition's publication.

PLANT SYSTEMATICS

AN INTEGRATED APPROACH

Science Publishers "The book strikes a balance between classical fundamental information and the recent developments in plant systematics. Special attention has been devoted to the information on botanical nomenclature, identification and phylogeny of angiosperms with numerous relevant examples and detailed explanation of the important nomenclatural problems. An attempt has been made to present a continuity between orthodox and contemporary identification methods by working on a common example. The methods of identification using computers have been further explored to help better online identification. The chapter on cladistic methods has been totally revised, and molecular systematics discussed in considerable detail."--Jacket.

BOTANY FOR DEGREE STUDENTS (FOR B.SC. 1ST SEMESTER, AS PER CBCS)

S. Chand Publishing This textbook has been designed to meet the needs of B.Sc. First Semester students of Botany as per the UGC Choice Based Credit System (CBCS). It acquaints students with general characteristics, classification and economic importance of various divisions of biodiversity i.e., Microbes, Algae, Fungi and Archegoniate. While it provides strong conceptual understanding of the subject, it also helps in developing scientific outlook of the student.

PLANT ANATOMY

S. Chand Publishing This book includes Embryology of Angiosperms, Morphogenesis of Angiosperm and Diversity and Morphology of flowering plants

BE A WINNER

HOW TO COME OUT A WINNER IN THE FACE OF HEAVY ODDS

V&S Publishers Life is full of ups and downs. While we exhilarate in the ups, we are totally at a loss when it comes to dealing with the downs. This book has been specifically designed to help you turn the tide in your favour in the face of odds. Each day is a fresh day - look at it with hope and enthusiasm, yesterday is over. Whatever the situation, you can make the best of things by the right approach: *If you wish to rise in your career, begin liking your work. *If you wish to excel, have a healthy approach to criticism. *If you want to scare away failures, preserve your peace of mind in the face of heavy odds. *If you desire a happy married life, learn to respect your spouse. The book covers the entire gamut of social, personal and professional situations and guides you how to come out a winner with hundreds of real-life examples from: *Lincoln * Munshi Prem Chand *Gandhi *Churchill *Napoleon *Marie Curie and many more.....presenting inspiring 'lives and times' for you to follow.

PLANT VIRUS-HOST INTERACTION

MOLECULAR APPROACHES AND VIRAL EVOLUTION

Academic Press Plant Virus-Host Interaction: Molecular Approaches and Viral Evolution, Second Edition, provides comprehensive coverage of molecular approaches for virus-host interaction. The book contains cutting-edge research in plant molecular virology, including pathogenic viroids and transport by insect vectors, interference with transmission to control viruses, synergism with pivotal coverage of RNA silencing, and the counter-defensive strategies used by viruses to overcome the silencing response in plants. This new edition introduces new, emerging proteins involved in host-virus interactions and provides in-depth coverage of plant virus genes' interactions with host, localization and expression. With contributions from leading experts, this is a comprehensive reference for plant virologists, molecular biologists and others interested in characterization of plant viruses and disease management. Introduces new, emerging proteins involved during the host-virus interaction and new virus strains that invade new crops through recombination, resorting and mutation Provides molecular approaches for virus-host interaction Highlights RNA silencing and counter-defensive strategies for disease management Discusses the socioeconomic implications of viral spread and mitigation techniques

CLIMATE CHANGE AND PLANTS

BIODIVERSITY, GROWTH AND INTERACTIONS

CRC Press Climate Change and Plants: Biodiversity, Growth and Interactions Evidence is raised daily of the varying climate and its impression on both plants and animals. Climatic changes influence all agriculture factors, which can potentially adversely affect their productivity. Plant activities are intimately associated with

climate and concentration of atmospheric carbon dioxide. Climate Change and Plants: Biodiversity, Growth and Interactions examines how plant growth characters influence and is influenced by climate change both in past and present scenarios. This book covers cutting-edge research of key determinants of plant growth in response to atmospheric CO₂ enhancement and global warming. Features Discourses numerous areas of sustainable development goals projected by the UN as part of the 2030 agenda Highlights appropriate approaches for maintaining better plant growth under changing climatic conditions Presents diversity of techniques used across plant science Is designed to cater to the needs of researchers, technologists, policymakers and undergraduate and postgraduate students studying sustainable crop production and protection Addresses plant responses to atmospheric CO₂ increases

BRYOPHYTES

THE CLOSEST LIVING RELATIVES OF EARLY LAND PLANTS

Magnolia Press

APPLIED PLANT VIROLOGY

ADVANCES, DETECTION, AND ANTIVIRAL STRATEGIES

Academic Press Applied Plant Virology: Advances, Detection, and Antiviral Strategies provides an overview on recent developments and applications in the field of plant virology. The book begins with an introduction to important advances in plant virology, but then covers topics including techniques for assay detection and the diagnosis of plant viruses, the purification, isolation and characterization of plant viruses, the architecture of plant viruses, the replication of plant viruses, the physiology of virus-infected hosts, vectors of plant viruses, and the nomenclature and classification of plants. The book also discusses defense strategies by utilizing antiviral agents and management strategies of virus and viroid diseases. With contributions from an international collection of experts, this book presents a practical resource for plant virologists, plant pathologists, horticulturalists, agronomists, biotechnologists, academics and researchers interested in up-to-date technologies and information that advance the field of plant virology. Covers the detection, control and management of plant viruses Discusses antiviral strategies, along with mechanisms of systemic induced resistance to enhance the defense of plants against viruses Provides contributory chapters from expert plant virologists from different parts of the world

PLANT TAXONOMY AND BIOSYSTEMATICS

Cambridge University Press A concise, up-to-date and fully-integrated discussion of present-day plant taxonomy.

A TEXT BOOK OF PRACTICAL BOTANY - 1

Rastogi Publications

A TEXT BOOK OF BOTANY : ANGIOSPERMS

ADVANCED MORPHOLOGY OF ANGIOSPERMS

The Topics Of Morphology Of Angiosperms In Advanced Level Are Included In The Present Book In 13 Chapters, More Or Less Covering The Syllabi For Advanced Morphology Of B.Sc. And M.Sc. Courses In Most Of The Indian Universities. However, In This Book, Morphology Of Vegetative And Reproductive Parts Of Plants, More Particularly Their Modified Structures, Morphological Characters Of Some Selected Angiospermic Families, Along-With Few Novel Stomata And Plant Taxa Discovered By The Author Have Been Added As An Attraction Towards This Book. Some Selected Questions Are Also Appended At The End Of The Chapters. Each Topic Has Been Provided With Utmost Care By Incorporating Data From Recent Literatures/Research Publications. The Author Has Given More Emphasis To Present The Subject Matter Of Each And Every Topics Covered By The Syllabi, In Simple, Concise And Easily Understood Form To The Students. For Better Understanding Diagrams Are Included. The Contents Include : · Origin And Evolution Of Angiosperms · Leaf : Morphology Of Leaves · Stem: Specialized And Modified Structures Of Stems · Root : Specialized And Modified Structures Of Roots · Inflorescence : Origin And Evolution Of Inflorescences · Flower : Origin And Evolution Of Angiospermic Flowers · Stamen : The Morphology Of Stamens · Carpel : Morphology Of Carpels · Fruit : Types Of Fruits/Seeds · Role Of Morphology In Plant Classification · Homology And Analogy In Plants · Special Types Of Nutrition In Plants With Reference To Angiosperms · General Morphology Of Selected Angiospermic Family. The Book Will Be Useful To The Teachers And Students Of Botany And Plant Science.

SYSTEMATICS OF FRUIT CROPS

New India Publishing "Taxonomists dealing with fruit crops have rated systematic pomology as an advanced horticultural subject and takes into consideration the basic aspects of taxonomy i.e. identification, naming of fruit plant species and varieties, besides, placements or logical classification of each fruit type under specific units of classification. For sound horticultural systematic knowledge primarily those of taxonomy, morphology, genetics, cytology and plant breeding is essential. For good reading material it is essential for systematic pomologists to use information of the associated sciences with appropriate explanations and applications. The present work provides elementary knowledge to the students who have started studying systematic pomology and covers: Introduction (three sub-heads) presents the more academic elements of taxonomy related to the theories, hypothesis, basic principles pre-requisite of systematics which are required for a minimum working knowledge of systematic pomology. The detail regarding general origin and distribution, flower and fruit structure is given so that students with this background knowledge are in a position to cope with problems related both to varietal descriptions and testing. Significance of systematic pomology to varietal improvement, new variety sources and methods of synthesis are detailed. The section 1-4 comprises of systematic enumeration of 58 fruits, discussed under the heads of tropical and subtropical, small fruits, nut fruits and temperate fruits. Each

crop covers in detail the historical background, origin, distribution and uses, pomological traits of fruit, important species and cultivars and line drawings of flowers and fruits structures. List of cultivars is restricted to popular cultivars as the cultivation status is ever changing. The glossary and annexures are designed with thrust on clarity and brevity. The annexures provide detailed information of fruit crops, fruit types, genera, species and tribes, their number and status in fruit crop families. Botanical terms chart provides morphological description of leaf, floral structure and form, inflorescence root and rootstock for easily understanding by the readers."

MOLECULAR MARKERS IN MYCOLOGY

DIAGNOSTICS AND MARKER DEVELOPMENTS

Springer The Kingdom fungi encompass a massive diversity of taxa with wide-ranging ecologies, life cycles, and morphologies ranging from unicellular aquatic chytrids to large mushrooms. Before molecular methods came in existence, taxonomists considered this Kingdom to be a member of the plant kingdom due to certain life styles like immobility and growth habitats. Molecular markers (also known as DNA markers), facilitated a better alternative method over traditional morphological methods, employed for the identification, characterization, and to understand the evolution of fungi. The morphological methods used for identification are mainly dependent on spore color or microscopic features whereas molecular markers are based on DNA polymorphism in the genomic organization. Phylogenetic studies reported in last decade, based on molecular markers, have reshaped the classification system of Kingdom fungi, which divided into one subkingdom, seven phyla, and ten subphyla. Recent advances in molecular mycology have opened the way for researchers to identify and characterize novel fungal species from unique environments. Mycology is concerned with the systematic study of fungi, including their genetic and biochemical properties, their use to humans as a source of medicine and food, as well as their dangers, such as poisoning and infections. In the 21st century with the development of DNA sequencing technologies and phylogenetic analysis based on molecular markers, new insights into fungal taxonomy were provided. This book contains a thorough discussion of molecular characterization and detection of different groups of fungi by using PCR-based markers and provides a comprehensive view of the applications and uses of different molecular markers in molecular mycology. It also addresses the recent molecular markers employed to solve the problems of identification and discusses current approaches used in molecular characterization and detection of fungi.

HIMALAYAN MEDICINAL PLANTS

ADVANCES IN BOTANY, PRODUCTION & RESEARCH

Academic Press The Himalayan Region is a mega hot spot for biological diversity. It supports over 1,748 plants species of known medicinal value. This title focuses on origin and distribution of Himalayan herbs, their medicinal potential, industrial significance, and research advancements pertaining to molecular breeding and

omics-based approaches. Discusses evolved secondary biochemical pathways often in response to specific environmental stimuli Reviews conservation efforts Presents an in-depth analysis of 12 key species