







3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

DVV Query

Item 3.2.2. Of DVV Query: Provide cover page, content page and first page of (Quality control & standardization of herbals, Pharmaceutical organic chemistry-II, Dietary supplements & nutraceuticals, Principles of drug discovery, the microbial world: exploring the diversity of bacteria) with ISBN numbers, title, author, department/ Scholl/ Division/ Center/ Unit/ Cell, name and year of publication.

DVV Clarifications:

Item 3.2.2 of DVV response: Provided cover page, content page and first page of (Quality control & standardization of herbals, Pharmaceutical organic chemistry-II, Dietary supplements & nutraceuticals, Principles of drug discovery, the microbial world: exploring the diversity of bacteria) with ISBN numbers, title, author, department/ Scholl/ Division/ Center/ Unit/ Cell, name and year of publication.









Content

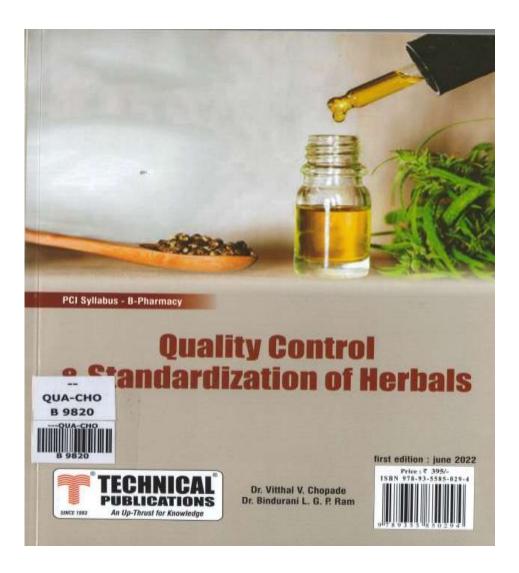
Sr. No.	Title of Books
1.	Quality control & standardization of herbals
2.	Pharmaceutical Organic Chemistry -II
3.	Dietary supplements & nutraceuticals
4.	Principles of Drug Discovery
5.	The Microbial World: Exploring the Diversity of Bacteria





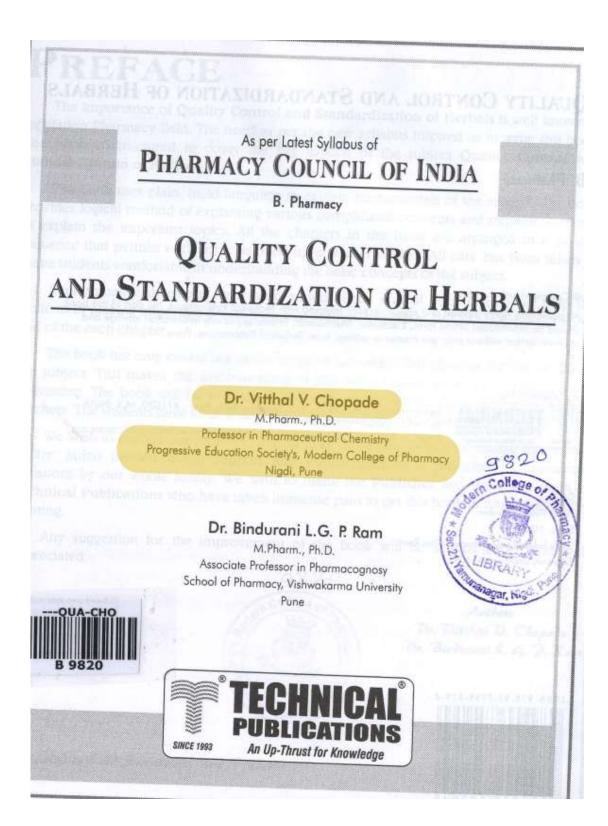
Quality control & standardization of herbals

Sr. No.	Name of the teacher/ Authors	Title of the book/chapter s published	National / Internati onal	Year of publica tion	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Links
1	Vittal V. Chopade	Quality control & standardizatio n of herbals	National	2022	978-93- 5585-029-4	PES Modern College of Pharmacy, Nigdi, Pune- 411 044,	Technical Publication	https://technicalpub lications.in/product s/9789355850294-1













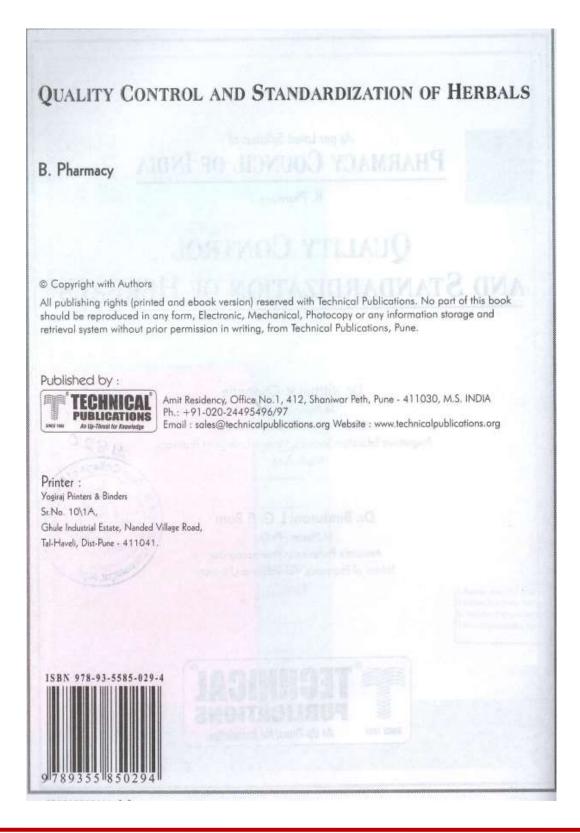






TABLE OF CONTENTS

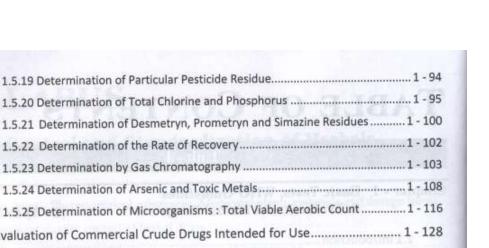
Unit - I

Chapter - 1 Basic Tests, WHO Guidelines & Evaluation of Herbal Drugs (1 - 1) to (1 - 140)1.1 Introduction 1.3 Test Procedures for Medicinal Plant Materials 1 - 17 1.4 Test Procedures for Pharmaceutical Dosage Forms 1 - 20 1.5 WHO Guidelines for Quality Control of Herbal Drugs 1 - 57 1.5.1 Determination of Foreign Matter......1 - 58 1.5.2 Macroscopic and Microscopic Examination 1 - 59 1.5.4 Histochemical Detection of Cell Walls and Contents 1 - 65 1.5.7 Thin-Layer Chromatography......1 - 71 1.5.9 Determination of Extractable Matter......1 - 79 1.5.11 Loss on Drying (Gravimetric Determination)......1 - 81 1.5.15 Determination of Tannins......1 - 91 1.5.17 Determination of Foaming Index.....1 - 92 1.5.18 Determination of Pesticide Residues1 - 93

141







1.6	Evaluation of Commercial Crude Drugs Intended for Use 1 - 128
	1.6.1 Organoleptic Evaluation
	1.6.2 Microscopic Evaluation
	1.6.3 Chemical Evaluation
1	1.6.4 Physical Evaluation
	1.6.5 Biological Evaluation
Mu	Itiple Choice Questions with Answers 1 - 135
0.	ections 1 - 140

Unit - II

Quality Assurance in Herbal Drug Industry Chapter - 2 (2 - 1) to (2 - 40)2.2 Guidelines on Good Manufacturing Practices for the Manufacture of Herbal Medicines 2 - 3 General Terms......2 - 4 2.2.1 2.2.3 Qualification and Validation2 - 6 (vi)





		2.2.11	Storage Areas
		2.2.12	Production Areas
		2.2.13	Equipment
		2.2.14	Materials
	2.3	Docu	mentation
		2.3.1	Specifications
		2.3.2	Herbal Materials
		2.3.3	Finished Herbal Products
	2.4	Good	Agricultural Practices for Medicinal Plants 2 - 21
		2.4.1	Identification/Authentication of Cultivated Medicinal Plants
	2.5	Good	Collection Practices for Medicinal Plants
		2.5.1	Permission to Collect
		2.5.2	Technical Planning
		2.5.3	Selection of Medicinal Plants for Collection
		2.5.4	Collection
		2.5.5	Personnel
	Mult	tiple Ch	noice Questions with Answers
200	Que	stions .	

Unit - III

Chapter - 3 EU, ICH & Research Guidelines of Herbal Medicines

		(3 - 1) to (3 - 28)
3.1	Intro	duction
3.2		e
3.3		tative and Quantitative Particulars of the Active Substance(s) of bal Medicinal Product
	3.3.1	Herbal Substances and Herbal Preparations Consisting of Comminuted or Powdered Herbal Substances
	3.3.2	Herbal Preparations Produced by Steps Which Exceed Comminution
3.4	Desci	ription of the Method of Preparation of the Herbal
	Medi	cinal Product 3 - 5

(vii)





3.5	Contro	ol of Starting Materials	3 - 6
3.5	2.5.1	Control of Herbal Substances	
	3.5.1	Control of Herbal Preparations	3 - 7
	3.5.4	ol Tests Carried Out at an Intermediate Stage of the Manufa	cturing
3.6	Contro	ss of the Herbal Medicinal Product	
	Proce	Control Tests on the Herbal Medicinal Product	
	5.0.1	ity Tests	3 - 9
3.7	Stabil	irch Guidelines for Evaluating the Safety include balloning the	
3.8	Resea	fficacy of Herbal Medicines	3 - 12
	and E	General Considerations in Herbal Medicine Research	3 - 12
		Research Approaches	
	3.8.2	Research Approaches	3 - 14
3.9	Resea	arch Studies	3 - 14
	3.9.1	Literature Background	3 - 14
	3.9.2	Protocol Preparation	2 14
	3.9.3	Quality Specifications of Plant Materials and Preparation	
	3.9.4	Methods in the Conduct of Non-clinical Research on Herbal Me	dicines 3 - 15
	3.9.5	Clinical Trials using Herbal Medicines	
	3.9.6	Clinical Trial Protocol Development	
	3.9.7	Phases of a Clinical Trial	
	3.9.8	Ethics Review Board	
	3.9.9	Responsibilities of the Investigators	
	3.9.1	O Responsibilities of the Sponsor	
	391	1 Data Management	
	201	2 Statistical Analysis	
	201	L3 Reporting	
	2.0	14 Evaluation of Herbal Medicine Research	3 - 20
	5.5.	hnology Transfer and Education	3 - 21
3.	10 Tec	0.1 Information for Fresh, Dried and Processed Plant Materials	
	1.000	a strate state and state stat	
		a Liferentian for Medicinal Preparations of Plant Materials	terter and the feeter
N	Interna	Choice Questions with Answers	3 - 23
0	uestion	15	3 - 27





Unit - IV

Chapter	- 4	Stability Testing & GMP Requirements of Herbal Medicines (4 - 1) to (4 - 44)
4.1	Stab	ility Testing of Herbal Medicine
		Shelf-Life
		Challenges in Stability Testing of Herbal Medicinal Product
	4.1.3	
4.2	Appl	ication of Various Chromatographic Techniques in Standardization of
		al Products
	4.2.1	Column Chromatography4 - 7
		4.2.1.1 Packing of the Column
		4.2.1.2 Sample Introduction
	4.2.2	Paper Chromatography
	4.2.3	Thin Layer Chromatography
	4.2.4	High Pressure Liquid Chromatography (HPLC)
	4.2.5	Gas Chromatography
	4.2.6	High Performance Thin Layer Chromatography (HPTLC)
4.3	Prepa	aration of Documents for New Drug Application
	and E	xport Registration
	4.3.1	Patenting and Regulatory Requirements of Natural Product
	4.3.2	Intellectual Property Rights (IPRs)
	4.3.3	Farmer's Rights
	4.3.4	Plant Breeder's Rights (PBR)
	4.3.5	Traditional Knowledge (TK)
	4.3.6	Case Study of Neem
	4.3.7	Case Study of Turmeric
4.4		atory Issues in India Herbal Drug Regulation in India
4.5		and Cosmetics Act 1940
		The Drugs Technical Advisory Board (DTAB)
10.00		The Central Drugs Laboratory (CDL)







Dr. Vitthal V. Chopade is presently working as an Associate Professor in Progressive Education Society's Modern College of Pharmacy, Yamuna Nagar Nigdi, Pune. He has completed his B.Pharm., M.Pharm. and Ph.D. in Pharmaceutical Sciences. He has 17 years' experience of teaching in Pharmaceutical Chemistry and Pharmaceutical Quality Assurance. He has published 80 research papers in National and International UGC care listed and good impact factor journals and has filled 4 patents and 7 books on his credit. He has presented research papers at National and International Conferences and seminars in India and abroad. He has received many prestigious awards including Best research presentation in National Conferences, Faculty of year from VM edulife, Digital learning organization and Best NSS programme officer from Savitribai

Phule Pune University, Pune. He has fetch research grants from All India Council for Technical Education (AICTE), University Grants Commission (UGC) and Savitribai Phule Pune University, Pune. He is approved PG and Ph.D. guide and his area of research is Pharmaceutical analysis, Analytical method development, Impurity isolation and Profiling, Bioanalysis, Bio actives and Natural products formulation. 35 students awarded M.Pharm. and 4 students has registered for Ph.D. under his able guidance in Savitribai Phule Pune University, Pune. He has completed major research projects from RPS-AICTE and has also completed minor research project from UGC and BCUD Savitribai Phule Pune University, Pune. He has emphasis on industry based quality education, digital learning, start up, entrepreneurship, collaborative multidisciplinary research, skill development based education, clinical research, medical coding, and drug regulatory affairs guidelines implementations among M. Pharm, students. He is an expert in instrument handlings like HPLC, HPTLC, NMR, IR, Spray dryer, LC-MS, Flash chromatography and Standardization of herbal drugs etc. He has worked as Coordinator for organization of national seminar, conference, short term training programme and faculty development programme.



Dr. Bindurani L. G. P. Ram currently working as an Associate Professor, Faculty of Pharmacy, Vishwakarma University, Pune and have more than 17 years' of teaching experience. She holds M.Pharm. In Pharmacognosy from Bharti Vidyapeeth, Pune. Dr. Bindurani has wider experience at various levels in academics. Her major research interest is Herbal drug research, Standardization of crude drugs and Phytochemistry. She has presented several research papers in various Symposia and Conferences and has published a number of quality research papers in National and international journals of repute. Dr. Bindurani is a life member of All India Pharmacy Teachers Association of India. She is also active as editor, reviewer and researcher in the field of Pharmacognosy and Phytochemistry and authored several books.

Available at all leading booksellers



ONLINE SELLER



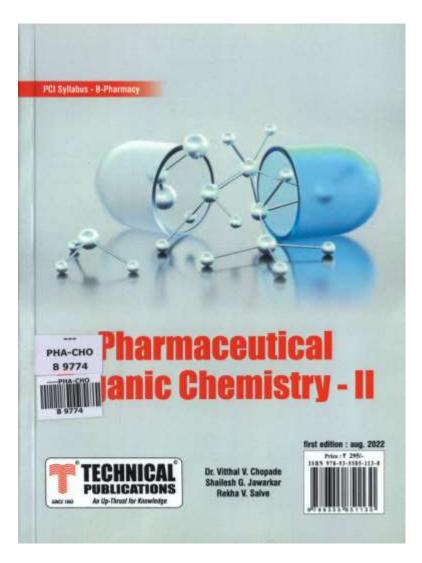
Website : www.technicalpublications.org Thttps://www.facebook.com/technicalpublications Amit Residency, Office No.1, 412, Shaniwar Peth, Pune - 411030, M.S. INDIA, Ph.: +91-020-24495496/97, [Email: sales@technicalpublications.org





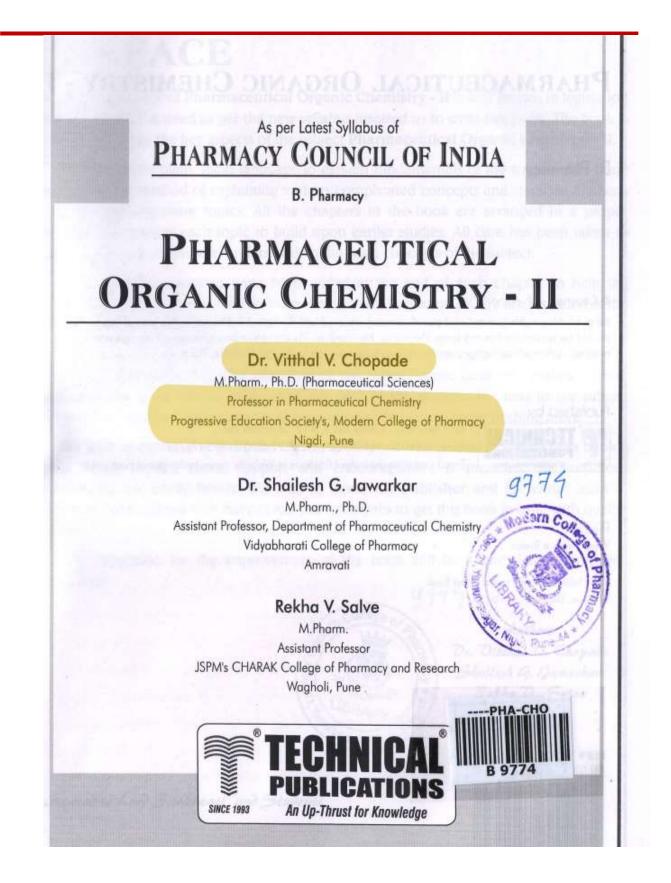
Sr. No.	Name of the teacher/ Authors	Title of the book/chapt ers published	Nationa l/ Interna tional	Year of public ation	ISBN number of the proceeding	Affiliating Institute at the time of publicatio n	Name of the publisher	Links
2	Vittal V. Chopade	Pharmaceuti c Organic Chemistry - II	National	2022	978-91- 5585-113-0	PES Modern College of Pharmacy, Nigdi, Pune- 411 044,	Technical Publicatio n	https://www.flipk art.com/pharmace utical-organic- chemistry-ii-b- pharmacy-pci- syllabus- textbook/p/itmdd 0aa1deaa1e2

Pharmaceutic Organic Chemistry -II



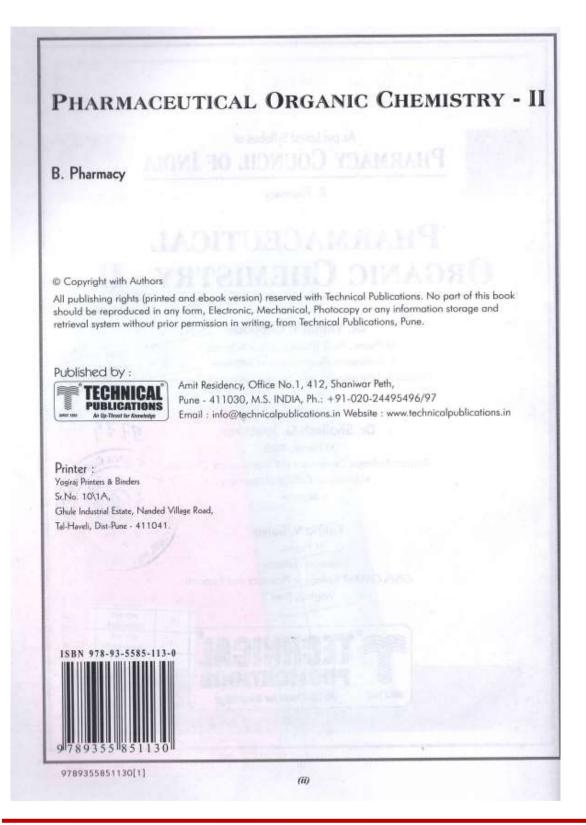
















Unit - I	
Chapter - 1 Benzene and Its Derivatives	(1 - 1) to (1 - 48)
1.1 Introduction	
1.2 Nomenclature	
1.2.1 Monosubstituted Benzene	
1.2.2 Disubstituted Benzenes	1.4
1.2.3 Polysubstituted Benzenes	1.3
1.3 Evidence in the Derivation of Structure of Benzene	
1.3.1 Synthetic Evidence of Benzene	
1.3.2 Structural Evidence of Benzene	
1.3.3 Analytical Evidence of Benzene	
1.3.4 Structures for Benzene	
1.4 Orbitals Picture	
1.5 Resonance in Benzene	
1.6 Aromaticity of Benzene	
1.7 Huckel's Rule	
1.8 Reactions of Benzene	
1.8.1 Nitration of Benzene	
1.8.2 Sulfonation of Benzene	
1.8.3 Halogenation of Benzene	
1.8.4 Friedel-Crafts Alkylation	
1.8.5 Friedel-Crafts Acylation	1-3
1.9 Effect of Substituents on Reactivity and Orientatic Benzene Compounds Towards Electrophilic Substi	on of Mono Substituted
1.10 The Effect of Substituents on Reactivity	rution Reaction
1.11 The Effect of Substituents on Origonality	
1.11 The Effect of Substituents on Orientation 1.12 Dichlorodiphenyltrichloroethane (DDT)	





1.13 Saccharin (Benzoic Sulfimide) 1 - 40
1.14 Benzene Hexachloride (BHC) 1 - 41
1.15 Chloramine
Multiple Choice Questions with Answers
Short Answer Questions
Long Answer Questions

Unit - II

Chapter - 2	Phenols, Aromatic Amines and Aromatic Acids	(2 - 1) to (2 - 52)
2.1 Introd	uction	
2.2 Classif	ication of Phenol	
2.3 Prepar	ation of Phenol	
2.4 Chemi	cal Reaction of Phenol	
2.5 Acidity	of Phenols	
2.6 Effect	of Substituents on Acidity of Phenols	
2.7 Qualita	ative Tests for Phenols	
2.8 Structu	ure and Uses of Phenol	
2.9 Structu	ure and Uses of Cresols Structure	
2.10 Struc	ture and Uses of Resorcinol	
2.11 Struc	ture and Uses of Naphthol Structure	
	Aromatic Amines	
2.12 Intro	duction	
2.13 Prepa	aration of Amines	
2.14 Chem	ical Reaction of Amines	
2.15 Basic	ity of Amines	
2.16 Effect	ts of Substituents on Basicity	
2.17 Synth	etic Uses of Aryl Diazonium Salts	
	Aromatic Acid	
2.18 Intro	duction	





2.19 Acidity of Aromatic Acids	
2.20 Effect of Substituents on Acidity	2-36
2.21 Preparation of Aromatic Acid	2-38
2.22 Reactions of Benzoic Acid	
2.22 Reactions of Benzoic Acid 2.23 Uses of Benzoic Acid	
Multiple Choice Questions with Answers	······ 2 - 4g
Short Answer Questions	
Long Answer Questions	

Unit - III

Chapter - 3 Fats and Oils

(3 - 1) to (3 - 24)

3.1 Introduction
3.2 Types of Fats and Oils
3.3 Chemical Reaction
3.4 Identification of Fats and Oils
3.5 Method for Analysis of Fats and Oils
Multiple Choice Questions with Answers
Short Answer Questions
Long Answer Questions

Unit - IV

Chapter - 4 Polynuclear Hydrocarbons (4 - 1) to (4 - 30) 4.1 Introduction 4 - 4 4.2 Classification 4 - 4 4.3 Naphthalene 4 - 6 4.3.1 Resonance of Naphthalene 4 - 6 4.3.2 Synthesis of Naphthalene 4 - 7 4.3.2.1 Synthesis of Naphthalene from Petroleum 4 - 7 4.3.2.2 Synthesis of Naphthalene from 4-Phenyl-1-Butene 4 - 7 4.3.2.2 Synthesis of Naphthalene from 4-Phenyl-1-Butene 4 - 7





4.3.2.3 Synthesis of Naphthalene from 4-Phenyl-3-Butenoic Acid	4 - 7
4.3.2.4 Haworth Synthesis of Naphthalene	4 - 8
4.3.3 Physical Properties of Naphthalene	4 - 9
4.3.4 Chemical Reactions of Naphthalene	4 - 9
4.3.4.1 Nitration	4 - 9
4.3.4.2 Friedal-Craft Acylation	4 - 9
4.3.4.3 Friedal-Craft Alkylation	4 - 10
4.3.4.4 Reduction	4 - 10
4.3.4.5 Oxidation	4 - 10
4.3.5 Medicinal Uses of Naphthalene	4 - 11
4.3.6 Derivatives	4 - 11
4.4 Phenanthrene	. 4 - 11
4.4.1 Resonance of Phenanthrene	4 - 12
4.4.2 Physical Properties of Phenanthrene	4 - 12
4.4.3 Synthesis of Phenanthrene	4 - 13
4.4.3.1 Synthesis of Phenanthrene by Haworth Synthesis	4 - 13
4.4.3.2 Synthesis of Phenanthrene from Dibenzyl	4 - 14
4.4.4 Reactions of Phenanthrene	4 - 14
4.4.4.1 Friedal-Craft Acylation	4 - 14
4.4.4.2 Nitration	4 - 14
4.4.4.3 Reduction	4 - 15
4.4.4.4 Oxidation	4 - 15
4.4.5 Uses of Phenanthrene	4 - 15
4.5 Anthracene	4 - 16
4.5.1 Resonance of Anthracene	4 - 16
4.5.2 Synthesis of Anthroppe	
4.5.2.1 By Ericdal Craft Posicion	
4.5.2.2 By Haworth Synthesis	
Constant of the second s	
4.5.2.4 By Diels-Alder Reaction	
4.5.2.4 By Diels-Alder Reaction	4 - 18

1044.





	A F A Developer of Anthoneses	
	4.5.4 Reactions of Anthracene	
	4.5.4.1 Nitration	
	4.5.4.2 Friedal-Craft Acylation	
	4.5.4.3 Reduction	
	4.5.4.4 Oxidation	
	4.5.4.5 Diels-Alder Reaction	
	4.5.5 Uses of Anthracene	
	4.5.6 Derivatives of Anthracene	
4	I.6 Diphenyl Methane	
	4.6.1 Physical Properties of Diphenyl Methane	
	4.6.2 Synthesis of Diphenyl Methane	
	4.6.2.1 Friedal-Craft Reaction	4 -
	4.6.2.2 From Benzene	
	4.6.2.3 From Benzophenone	
	4.6.2.4 From Grignard Reagent	
	4.6.3 Reactions of Diphenyl Methane	
	4.6.3.1 Nitration	
	4.6.3.2 Halogenation	
	4.6.3.3 Oxidation	
	4.6.3.4 Cyclization	4 -
	4.6.4 Uses of Diphenyl Methane	
	4.6.5 Derivatives of Diphenyl Methane	
12-14	4.7 Triphenyl Methane	
	4.7.1 Synthesis of Triphenyl Methane	
	4.7.1.1 Friedal-Craft Reaction	4-
	4.7.1.2 Condensation with Chloroform	
	4.7.1.3 Condensation with Benzaldehyde	
	4.7.2 Reactions of Triphenyl Methane	
	4.7.3 Uses of Triphenyl Methane	







4.7.4 Derivatives of Triphenyl Methane	
Multiple Choice Questions with Answers	
Short Answer Questions	
Long Answer Questions	4 - 29

Unit - V

Chapter - 5 Cycloalkanes

(5 - 1) to (5 - 18)

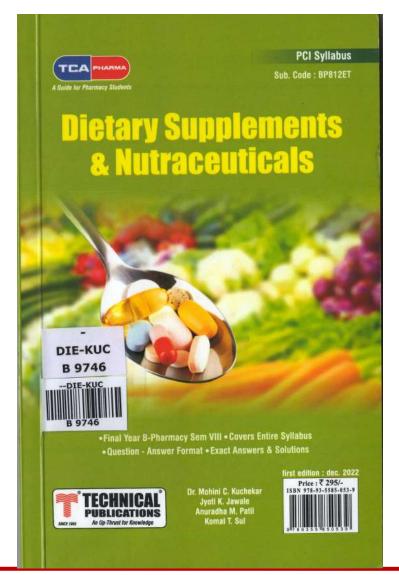
5.1 Introduction
5.1.1 Nomenclature
5.1.2 Structure
5.1.3 Physical Properties
5.2 Cycloalkanes Preparation
5.3 Reactions of Cycloalkanes
5.4 Stability
5.5 Baeyer Strain Theory
5.6 Limitations of Baeyer Strain Theory
5.7 Coulson and Moffitt's Modification
5.8 Sachse's S-Mohr's Theory (Theory of Strainless Ring)
5.9 Reactions of Cyclopropane and Cyclobutane
Multiple Choice Questions with Answers
Short Answer Questions 5 - 18
Long Answer Questions





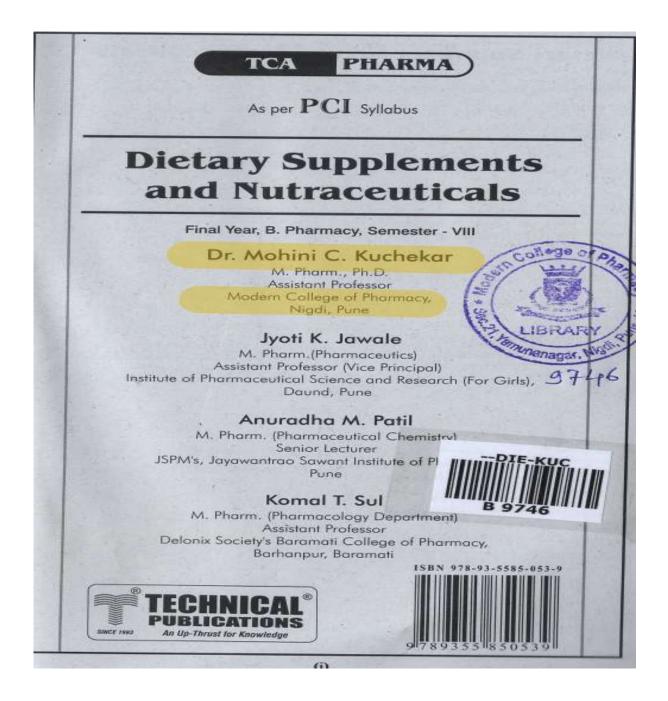
Dietary supplements and nutraceuticals

Sr. No.	Name of the teacher/ Authors	Title of the book/chapter s published	National / Internati onal	Year of publica tion	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Links
3	Kuchekar M.C.	Dietary supplements & nutraceuticals	National	2022	978-93- 5585-053-9	PES Modern College of Pharmacy, Nigdi, Pune- 411 044,	Technical Publication	https://technicalpu blications.in/produ cts/978935585053 <u>9-1#</u>













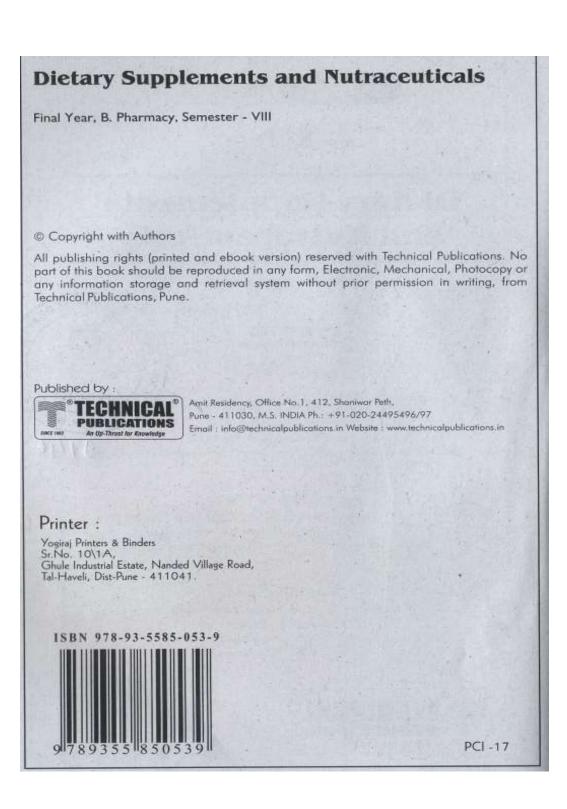
(3 - 1) to (3 - 33)

(4 - 1) to (4 - 50)

2.5 Occurrence and Characteristic Features of Flavonoids 2 - 13 TABLE OF CONTENTS 2.6 Occurrence and Characteristic Features UNIT - I Occurrence and Characteristic Features of Phytoestrogens . 2 - 35 2.7 Chapter 1 Nutraceuticals (1 - 1) to (1 - 40) Occurrence and Characteristic Features of Tocopherols. 2 - 39 2.8 Occurrence and Characteristic Features of Proteins, Vitamins, 2.9 1.1 Minerals, Cereal, Vegetables and Beverages as 1.2 Functional Foods......2-41 Health Problems and Diseases that can be Prevented 1.3 UNIT - III 1.4 Public Health Nutrition, Maternal and Child Nutrition, Free Radicals, Dietary Fibers and Chapter 3 Nutrition and Ageing, Nutrition Education in Community. . . 1 - 13 **Complex Carbohydrates** 1.5 Source, Name of Marker Compounds and their Chemical Nature, Medicinal Uses and Health Benefits Used as Dietary Fibres and Complex Carbohydrates as Functional 3.2 Food Ingredients 3 - 19 UNIT - II UNIT - IV Chapter 2 Phytochemicals as Nutraceuticals (2 - 1) to (2 - 60) Chapter 4 Role of Free Radicals in Diseases, Anti-oxidants and Functional Food 2.1 for Chronic Diseases Occurrence and Characteristic Features of Carotenoids 2 - 2 2.2 Occurrence and Characteristic Features of Sulfides2-9 23 4.2 Occurrence and Characteristic Features of Polyphenolics ... 2 - 11 24 (viii) 100











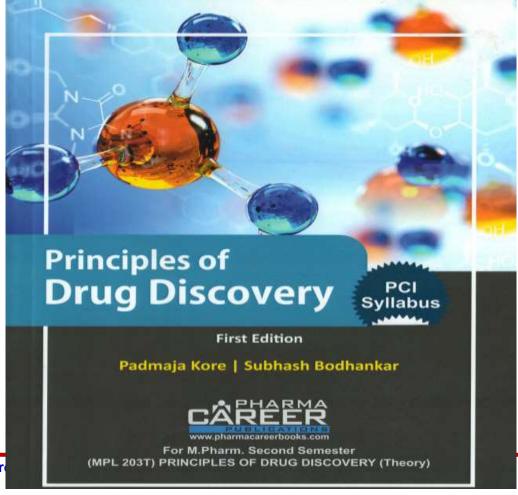
		UNIT - V	
Ch	apter 5	Potency, Regulatory A and Pharmacopoeial S of Dietary Supplements Nutraceuticals	pecifications
5.1	Effect of	Processing, Storage and Inter-	actions of
		Environmental Factors on the	
	the second se	ceuticals	
5.2			
5.4	Regulato	ry Aspects	
5.3	Pharmaco	opoeial Specifications for Diet	ary Supplements
	and Nutra	aceuticals	

Principles of Drug Discovery





Sr. No.	Name of the teacher/ Authors	Title of the book/chapter s published	National / Internati onal	Year of publica tion	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Links
4	Padmaja S. Kore	Principles of Drug Discovery	National	2022	978-93- 92867-15-6	PES Modern College of Pharmacy, Nigdi, Pune- 411 044,	Career Pub.	https://www.amazo n.in/Principles- Drug-Discovery-as- PCI/dp/B0C9M62B HV/ref=sr_1_2?cri d=34XXCTIJM31 G3&keywords=Pri nciples+of+Drug+ Discovery&qid=16 90870027&sprefix =principles+of+dru g+discovery%2Cap s%2C208&sr=8-2



Progr





Principles of Drug Discovery

As per PCI Regulations For M.Pharm : Semester-II

FIRST EDITION

Dr. Padmaja Santosh Kore

M.Pharm, Ph.D.(Pharmacology) Assistant Professor, Department of Pharmacology Progressive Education Society's Modern College of Pharmacy, Yamunanagar, Nigdi, Pune- 411 044

Dr. Subhash Laxmanrao Bodhankar M.Sc, Ph.D.(Pharmacology) Professor,Department of Pharmacology Bharati Vidyapeeth, Deemed to be University, Poona College of Pharmacy, Paud Road, Erandwane, Pune- 411 038



Primer: Triniy Acadamy for Corporate Daining I





Principles of Drug Discovery

First Edition : October - 2022

ISBN: 978-93-92867-15-6

© All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publishers.

Published by :

Career and Pharma Publications Reg. Off. : 432/B, Deshmukh Bungalow, Vakil Wadi, Nashik - 422 001. Maharashtra, India.

Communication Address :

Second Floor, Kaveri Smruti, Vakil Wadi, Ashok Stambh, Nashik - 422 001 Maharashtra, India. Ph. : (0253) 2311422, 2576175 E-mail : stores@careerandyou.com www.pharmacareerbooks.com

Typesetting : Renuka Chandwadkar

Cover Design: Satish More

Editor : Sudhanva Tipare

Printer : Trinity Academy for Corporate Training Ltd.





About the Book

Salient features of the book:

- The book covers the basic principles of the drug discovery.
- ✓ The concepts are made simpler for the postgraduate students.
- The book covers the contents as per the PCI syllabus.

About the Authors



Dr. Padmaja Santosh Kore is Assistant Professor (Pharmacology) at Progressive Education Society's Modern College of Pharmacy, Pune. She has teaching experience of 12 years and has guided 3 M.Pharm students for their project. She has published various review and research papers in peer reviewed, national and

international journals and presented various oral research papers. She has reviewed 4 research papers and has published several book chapters in national books and has 5 upcoming book chapters in international books.



Dr. Subhash Laxmanrao Bodhankar is working as Professor of Pharmacy Practice at Poona College of Pharmacy, Pune. He has started his career as Lecturer in Pharmacology at Lady Hardinge Medical College, New Delhi and Holkar Science College, Indore. He has worked for ten years as faculty at Ahmadu Bello University,

Zaria, Nigeria. He has guided 27 Ph.D. and more than 150 M.Pharm. students. He has also completed about 150 industrial projects. He has published 404 research papers and has H index-59 and citations 10248 and 110 index 225. He has written a text book and co-authored many book chapters. His name has been included by Stanford University USA in the list of top two percent scientists in the world.



First Edition

Price : ₹ 400/-

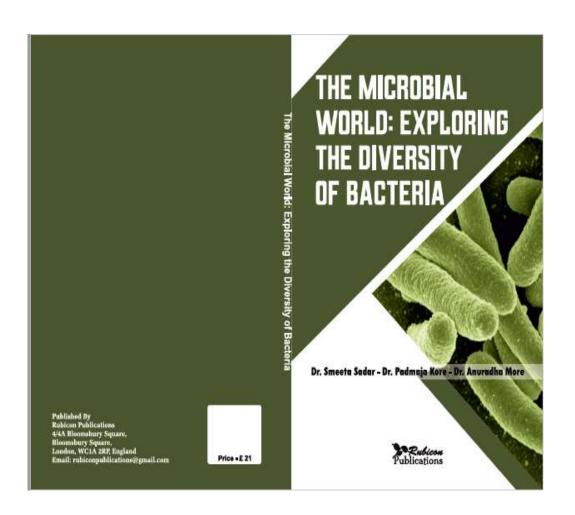


Principles of Drug Discovery





Sr. No.	Name of the teacher/ Authors	Title of the book/chapter s published	National / Internati onal	Year of publica tion	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Links
5	Padmaja S.Kore, Anuradha More	The Microbial World: Exploring the Diversity of Bacteria	Internati onal	2023	978-1- 80433-971-8	PES Modern College of Pharmacy, Nigdi, Pune- 411 044,	Rubicon Publication s	https://www.rubico npublications.com/ books/1686734453- the-microbial- world-exploring- the-diversity-of- bacteria







The Microbial World: Exploring the Diversity of Bacteria Authors Dr. Smeeta Sadar Dr. Padmaja Kore Dr. Anuradha More Rubicon blications





Published By: Rubicon Publications

4/4A Bloomsbury Square, Bloomsbury Square, London, WC1A 2RP, England Email: info@rubiconpublications.com

Authors: Dr. Smeeta Sadar, Dr. Padmaja Kore and Dr. Anuradha More

The editors/publisher has attempted to trace and acknowledge the materials reproduced in this publication and apologize if permission and acknowledgements to publish in this form have not been given. If any material has not been acknowledged please write and let us know so that we may rectify it.

© Rubicon Publications Edition: 1st Publication Year: 2023 ISBN: 978-1-80433-971-8 Pages: 227 Price: £ 21







	Contents	
S. No.	Chapters	Page No.
1.	Prevotella intermedia (Vaishnavi Tanwade and Dr. Smeeta Sadar)	01-09
2.	Prevotella marshii (Vaishnavi Tanwade and Dr. Smeeta Sadar)	11-20
3.	Prevotella maculosa (Bhavik Gala and Dr. Smeeta Sadar)	21-28
4.	Prevotella melaninogenica (Bhavik Gala and Dr. Smeeta Sadar)	29-43
5.	Prevotella copri: Beneficial Role and its Cultivation (Aishwarya Reddy and Dr. Smeeta Sadar)	45-63
6.	Prevotella nigrescens: Identification and Pathogenicity (Aishwarya Reddy and Dr. Smeeta Sadar)	65-74
7.	Prevotella oris: Pathogenicity and Immune Response (Mahesh Ravindra Bhadane and Dr. Smeeta Sadar)	75-89
8.	Prevotella histicola (Falak Ameesh Patel and Dr. Padmaja Kore)	91-99
9.	Prevotella denticola (Falak Ameesh Patel and Dr. Padmaja Kore)	101-109
10.	Prevotella micans (Shreya Mishra and Dr. Padmaja Kore)	111-118
11.	Prevotella bryantii (Shreya Mishra and Dr. Padmaja Kore)	119-124
12.	Prevotella fusca (Shreya Koche and Dr. Padmaja Kore)	125-132
13.	Prevotella albensis (Shreya Koche and Dr. Padmaja Kore)	133-143