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Summary of the Cover Page,
Content Page & First
Page of the Publication
Indicating ISBN Number and Year
of Publication for Books, Chapters

ACADEMIC YEAR 2020-2021
BOOK PUBLICATIONS

Sr no	Name of the teacher	Title of the book/chapters published	Year of publication	ISBN number of theproceeding	Name of the publisher
1	Dr. N.S. Vyawahare	Experimental Aspects of Cellular and Molecular Pharmacology A treatise	2021	9789355741110, 9355741111	Walnut Publication
2	Ms.P V Powar	Fundamentals of Budding Fermentation Technologies	2021	8193563697, 9788193563694	JPS Scientific Publications, India; 1st edition



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1	Dr. S. P. Mahaparale	A practical Book of Pharmaceutical Analysis I As per PCI Syllabus	2020	978-93-90437-29-0	Nirali Prakashan
2	Ms Jyotsna R Chopade	A practical Book of Pharmaceutical Analysis I As per PCI Syllabus	2020	978-93-90437-29-0	Nirali Prakashan
3	Dr. N.S. Vyawahare	Preclinical In-vivo and In-vitro methods for evaluation of Anti-Alzeimer's Drugs (Chapetr 9)	2020	9780367332020	CRC Press



ACADEMIC YEAR 2018-2019

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1	Dr. N.S. Vyawahare	The New Lexicon of Diabetes: A Reference guide: International Testimonial & Almanac of diabetes	2019	978-613-8-83732-9	Scholars Press
2	Dr. N.S. Vyawahare	Drug Regulatory Affairs	2019	978-9380064680	Nirali Prakashan
3	Dr. Pallavi M. Chaudhari	Communication Skills	2019	9789389460049	Tech Neo Publication



ACADMIC YEAR 2017-2018

BOOK PUBLICATIONS

Sr no	Name of the teacher	Title of the book/chapters published	Year of publication	ISBN number of the proceeding	Name of the publisher
1	Dr. N.S. Vyawahare	Remedial Biology (Book & Question Answer format)	2018	978-93-332-1853-5	Technical Publications
2	Dr. D. S. Shirode	Remedial Biology (Book & Question Answer format)	2018	978-93-332-1853-5	Technical Publications
3	Dr A.V Kulkarni	Remedial Biology (Book & Question Answer format)	2018	978-93-332-1853-5	Technical Publications
4	Priyatama Powar	Pharmaceutical microbiology (1 Edition)	2018	978-93-332-1912-9	Technical Publications
5	Dr. S.P.Chaudhari	Biopharmaceutics and Pharmacokinetics, As per Rajiv Gandhi Proudयोगiki Vishwavidyalaya ,Bhopaland PCI syllabus	2018	978-93-87656-31-4	Tech-Max Publications, Pune
6	Dr. P. M. Chaudhari	Biopharmaceutics and Pharmacokinetics, As per Rajiv Gandhi Proudयोगiki Vishwavidyalaya ,Bhopaland PCI syllabus	2018	978-93-87656-31-4	Tech-Max Publications, Pune
7	Dr. P. M. Chaudhari	Communication Skills	2018	978-93-88314-11-4	Tech-Max Publications, Pune
8	Dr. S. P. Mahaparale	Practical Handbook of Pharmaceutical InorganicChemistry	2017	978-93-24457-10-6	Success Publishers, Pune
9	Dr. S.P.Chaudhari	Pharmaceutics -I as per Pharmacy Council of IndiaSyllabus	2017	978-93-87093-02-7	Thakur Publishers, Lucknow
10	Dr. S.P.Chaudhari	Practical Handbook of Pharmaceutical Microbiologyand immunology for S Y B.Pharm	2017	978-93-24457-0-3	Success Publishers,Pune
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Understanding interaction between drug molecules and targets is a major pharmacological skill. Molecular and Cellular Pharmacology approaches have greatly increased the knowledge of the structure and function of drug targets, such as receptors, enzymes and transport molecules, revealing diversity far greater than had been realised. This textbook provides a comprehensive and accessible introduction to the rapidly expanding field of cellular and molecular pharmacology. The book deals with most commonly used experiments to understand the relationship of proteins and their involvement in a pathological state at molecular and cellular level. This book is of immense use for research scholars dealing with protein estimation and identification.



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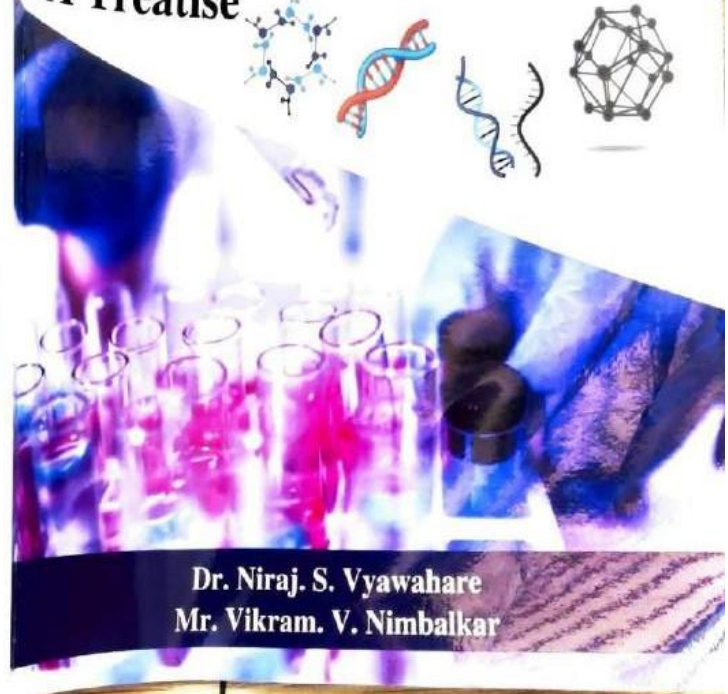
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A Treatise



Dr. Niraj. S. Vyawahare
Mr. Vikram. V. Nimbalkar

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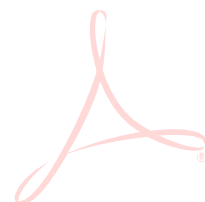
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She has guided many students for their B-Pharm projects. She aims to train the students and understand the concepts and their practical applications along with an expertise to handle various instruments for their further career in Pharmaceutical Sector.



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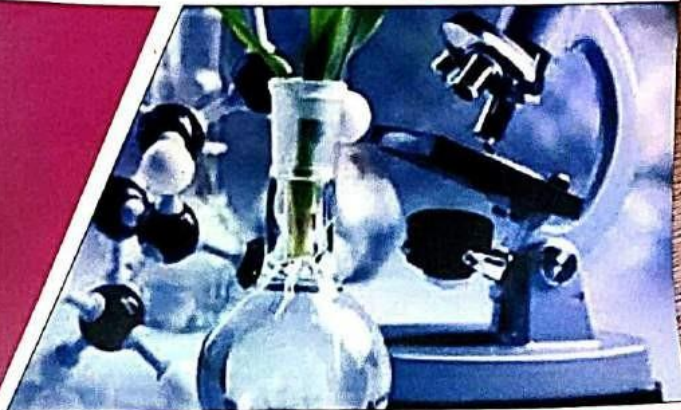
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A PRACTICAL BOOK OF PHARMACEUTICAL ANALYSIS-I

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A Practical Book of **PHARMACEUTICAL ANALYSIS - I**

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Semester- I**

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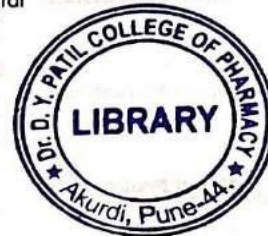
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Dr. (Mrs.) Sonali P. Mahaparele

I am greatly indebted to 'the Almighty', for showering his infinite graces and mercies on me, without which this work was impossible.

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Every event, small or big in nature, is itself a creation. At heart of every event lies a cause, a reason and inspiration. To a person in whatever walk of life, he/she may be, this inspiration is always there in the form of Mentors and Friends. It gives me a deep seated pleasure to extend my profound respect and heartfelt gratitude towards my family for their constant love, support and encouragement throughout my life.

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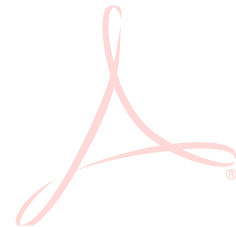
Mrs. Jyotsna R. Chopade Patil

I cannot express enough thanks to the Management of Dr. D. Y. Patil Educational Complex, Akurdi, Pune for the continued support and encouragement. I offer my heartfelt gratitude to Principal, Dr. N. S. Vyawahare, Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune, who has been an immense support and motivation for this book.

Finally I would humbly extend my thanks to my family and friends for the moral support.

Mrs. Supriya K. Mane

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Syllabus

BP108P. PHARMACEUTICAL ANALYSIS (Practical) 4 Hours / Week

I. Limit Test of the Following:

- (1) Chloride
- (2) Sulphate
- (3) Iron
- (4) Arsenic

II. Preparation and Standardization of:

- (1) Sodium hydroxide
- (2) Sulphuric acid
- (3) Sodium thiosulfate
- (4) Potassium permanganate
- (5) Ceric ammonium sulphate

III. Assay of the Following Compounds along with Standardization of Titrant:

- (1) Ammonium chloride by acid base titration
- (2) Ferrous sulphate by cerimetry
- (3) Copper sulphate by iodometry
- (4) Calcium gluconate by complexometry
- (5) Hydrogen peroxide by permanganometry
- (6) Sodium benzoate by non-aqueous titration
- (7) Sodium chloride by precipitation titration

IV. Determination of Normality by Electro-Analytical Methods:

- (1) Conductometric titration of strong acid against strong base
- (2) Conductometric titration of strong acid and weak acid against strong base
- (3) Potentiometric titration of strong acid against strong base

V Determination of Refractive index by Refractometry

- (1) Determination of Refractive Index of Distilled Water
- (2) Determination of Refractive Index of Glycerine.
- (3) Determination of Refractive Index of Rectified Spirit.
- (4) Determination of Refractive Index of Castor Oil.

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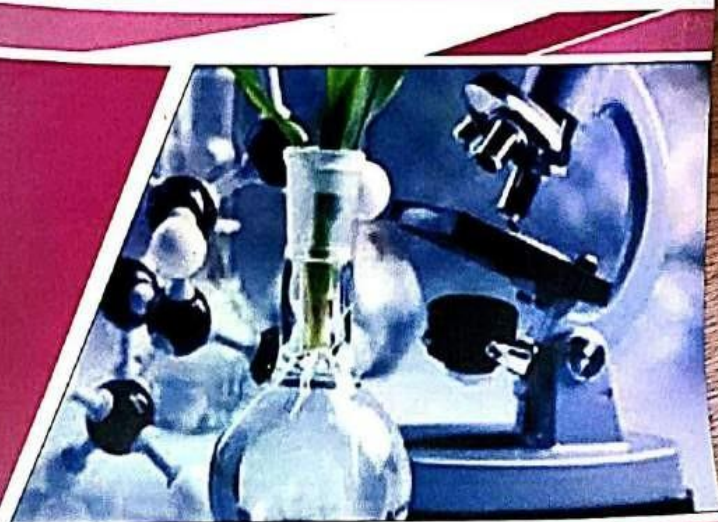
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A PRACTICAL BOOK OF PHARMACEUTICAL ANALYSIS-I

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As Per PCI Regulations and SPPU

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I would like to thank **my Gurus, Mentors, Friends and Colleagues** for their support and co-operation during writing this book.

I express my heartfelt gratitude to **my Mother-in-law and Parents** for supporting me throughout writing this book.

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Dr. (Mrs.) Sonali P. Mahapare

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Every event, small or big in nature, is itself a creation. At heart of every event lies a cause, a reason and inspiration. To a person in whatever walk of life, he/she may be, this inspiration is always there in the form of **Mentors and Friends**. It gives me a deep seated pleasure to extend my profound respect and heartfelt gratitude towards my family for their constant love, support and encouragement throughout my life.

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Finally I would humbly extend my thanks to my family and friends for the moral support.

Mrs. Supriya K. Mane**BACK TO SUMMARY**

Syllabus

BP108P. PHARMACEUTICAL ANALYSIS (Practical) 4 Hours / Week

I. Limit Test of the Following:

- (1) Chloride
- (2) Sulphate
- (3) Iron
- (4) Arsenic

II. Preparation and Standardization of:

- (1) Sodium hydroxide
- (2) Sulphuric acid
- (3) Sodium thiosulfate
- (4) Potassium permanganate
- (5) Ceric ammonium sulphate

III. Assay of the Following Compounds along with Standardization of Titrant:

- (1) Ammonium chloride by acid base titration
- (2) Ferrous sulphate by cerimetry
- (3) Copper sulphate by iodometry
- (4) Calcium gluconate by complexometry
- (5) Hydrogen peroxide by permanganometry
- (6) Sodium benzoate by non-aqueous titration
- (7) Sodium chloride by precipitation titration

IV. Determination of Normality by Electro-Analytical Methods:

- (1) Conductometric titration of strong acid against strong base
- (2) Conductometric titration of strong acid and weak acid against strong base
- (3) Potentiometric titration of strong acid against strong base

V. Determination of Refractive index by Refractometry

- (1) Determination of Refractive Index of Distilled Water
- (2) Determination of Refractive Index of Glycerine.
- (3) Determination of Refractive Index of Rectified Spirit.
- (4) Determination of Refractive Index of Castor Oil.

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Phytomedicine and Alzheimer's Disease



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2	Dr. N.S. Vyawahare	Drug Regulatory Affairs	2019	978-9380064680	Nirali Prakashan
3	Dr. Pallavi M. Chaudhari	Communication Skills	2019	9789389460049	Tech Neo Publication



The New Lexicon of Diabetes

Diabetes is intricate disorder. This cannot be treated fully. Though there are many allopathic treatments are available but still diabetic complications are taking place and hastening the patient's life. A diabetic complication arises due to formation of advanced glycation end product, Polyol pathway, DAG pathway and Protein Kinase C Activation. The basic principles of diagnosis of diabetes are also deliberated. This Book covers the multi levels of treatment for Diabetes. We are proud of our Country our mother Bharat Mata. Along the side of Ayurveda, Homeopathic medicines are also discussed. In Ayurveda a separate chapter which deals with cognition, brain boosting and Immune Modulation is termed as Rasayana. This book also deals with understanding and importance of spiritual health of person. In this we have tried to emphasize the God of Medicine/Pharmacy Shree KiratRudra by taking references of Dr. Aniruddha D. Joshi's Pitruvachan (Discourses) and some chapters from Shukla Yajurveda. Yoga, various Mudras and Best food to be eaten for diabetics is also discussed.



Dr. Neeraj S. Vyawahare is Principal of Dr. D. Y. Patil College of Pharmacy, Akurdi, India. 17+ years Teaching Experience. 70+ Research Publications. Mr. Aniket Garud. Professor at Rasikla M Dharwal Institute of Pharmaceutical Education & Research. Action Committee Member in Aniruddhas Academy of Disaster Management. HAM Radio Call Sign: VU2WGL.



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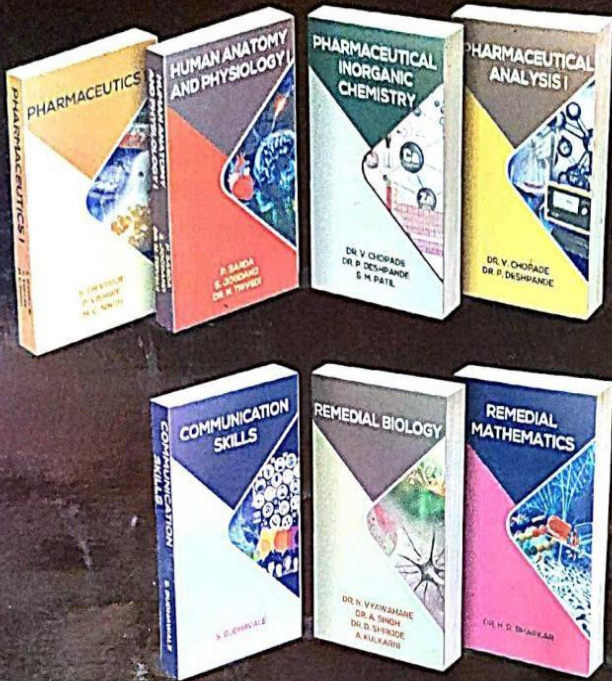
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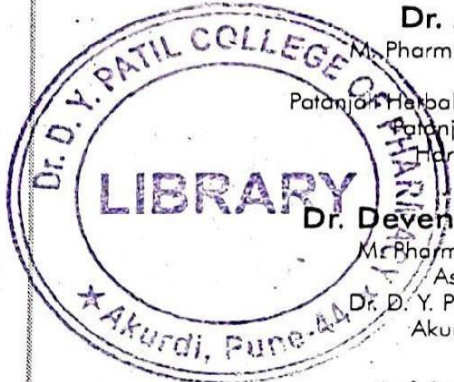
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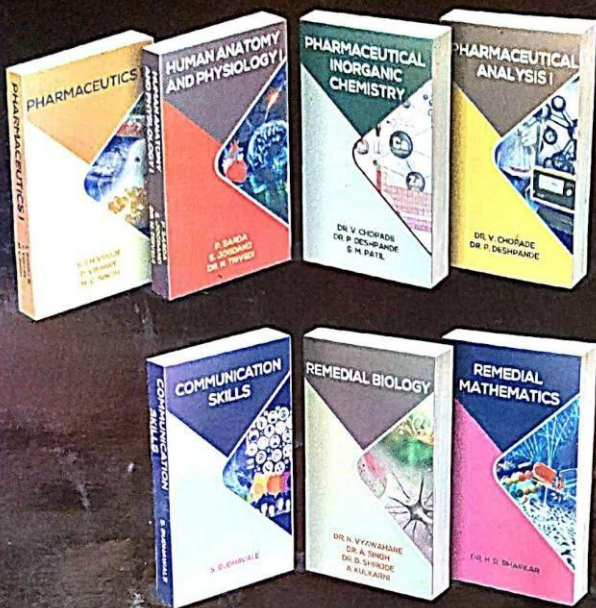
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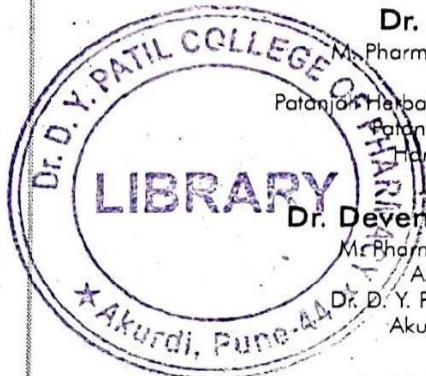
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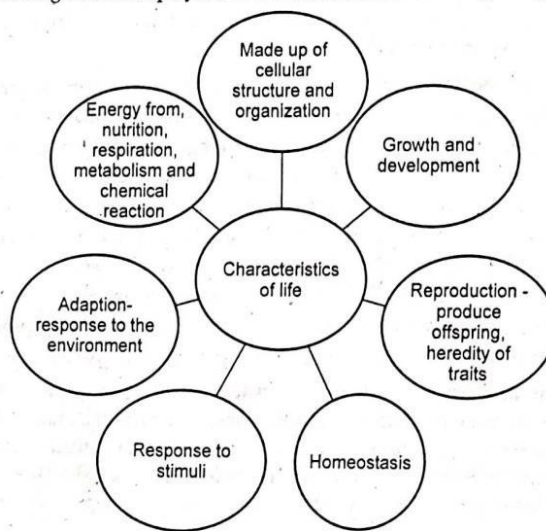
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LIVING WORLD AND MORPHOLOGY OF FLOWERING PLANTS

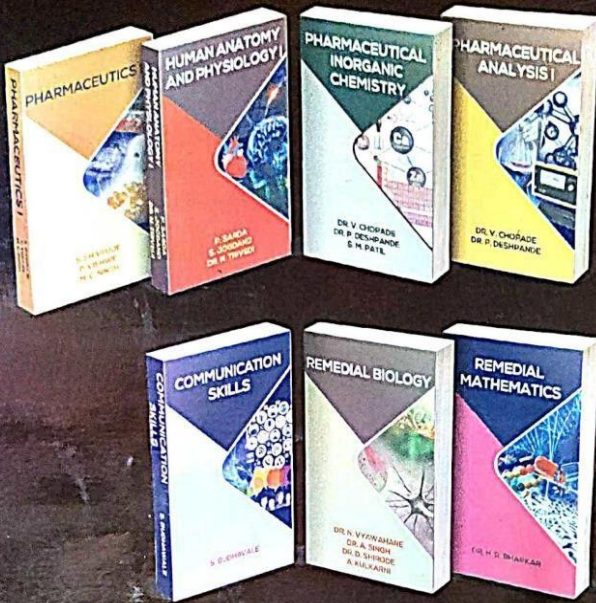
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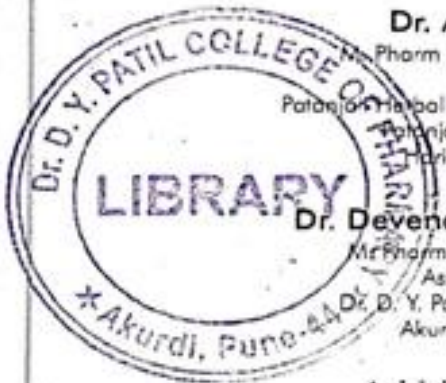
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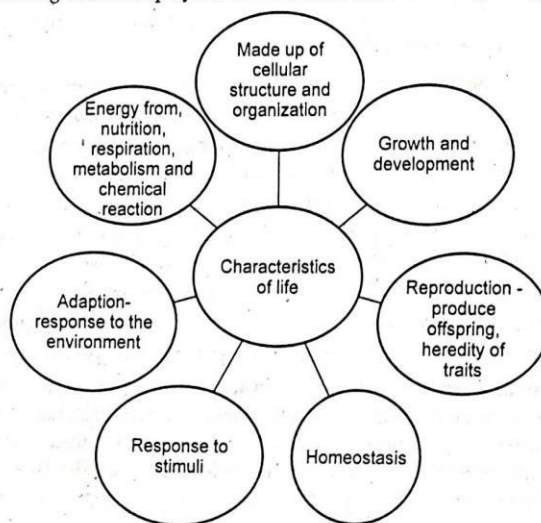
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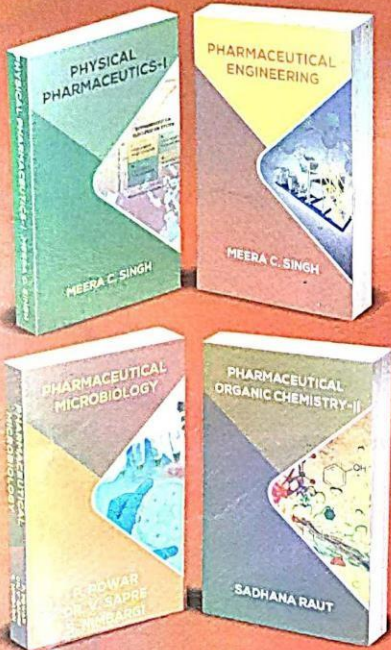
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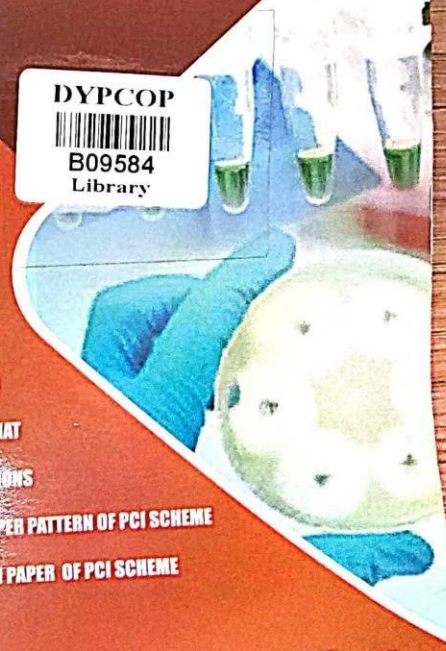


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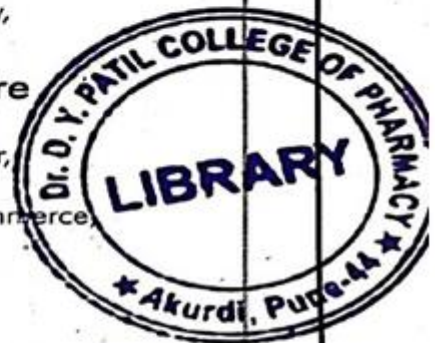
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PHARMACEUTICAL MICROBIOLOGY (BP303 T)

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Introduction, history of microbiology, its branches, scope and its importance.
Introduction to Prokaryotes and Eukaryotes Study of ultra-structure and morphological classification of bacteria, nutritional requirements, raw materials used for culture media and physical parameters for growth, growth curve, isolation and preservation methods for pure cultures, cultivation of anaerobes, quantitative measurement of bacterial growth (total & viable count).
Study of different types of phase contrast microscopy, dark field microscopy and electron microscopy. (Chapter - 1)

Unit II

Identification of bacteria using staining techniques (simple, Gram's & Acid fast staining) and biochemical tests (IMVIC).
Study of principle, procedure, merits, demerits and applications of physical, chemical gaseous, radiation and mechanical method of sterilization.
Evaluation of the efficiency of sterilization methods.
Equipments employed in large scale sterilization.
Sterility indicators. (Chapter - 2)

Unit III

Study of morphology, classification, reproduction/replication and cultivation of Fungi and Viruses.
Classification and mode of action of disinfectants Factors influencing disinfection, antiseptics and their evaluation. For bacteriostatic and bactericidal actions
Evaluation of bactericidal & Bacteriostatic.
Sterility testing of products (solids, liquids, ophthalmic and other sterile products) according to IP, BP and USP. (Chapter - 3)

Unit IV

Designing of aseptic area, laminar flow equipments; study of different sources of contamination in an aseptic area and methods of prevention, clean area classification.

(iv)

Principles and methods of different microbiological assay. Methods for standardization of antibiotics, vitamins and amino acids.

Assessment of a new antibiotic. (Chapter - 4)

Unit V

Types of spoilage, factors affecting the microbial spoilage of pharmaceutical products, sources and types of microbial contaminants, assessment of microbial contamination and spoilage.

Preservation of pharmaceutical products using antimicrobial agents, evaluation of microbial stability of formulations.

Growth of animal cells in culture, general procedure for cell culture, Primary, established and transformed cell cultures.

Application of cell cultures in pharmaceutical industry and research. (Chapter - 5)

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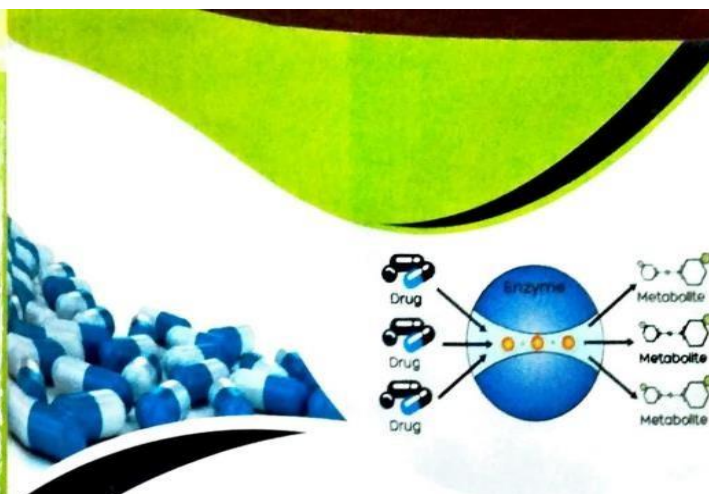
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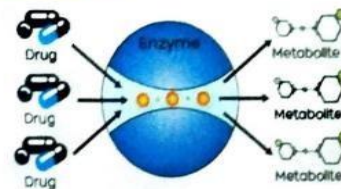
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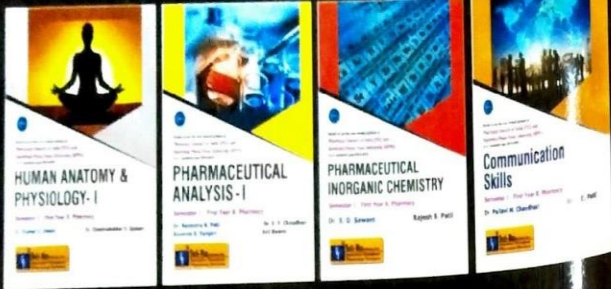


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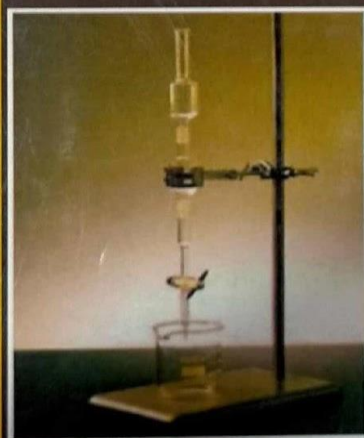
Practical Handbook of

Pharmaceutical Inorganic Chemistry

F.Y.B.Pharm. (Sem. - I)

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Practical Handbook of Pharmaceutical Inorganic Chemistry

F. Y. B. Pharm. (Sem. - I)

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~ ii ~

About the Book

This textbook introduces details of Pharmaceutics in a systematic way with exercises at the end of each chapter. Chapter 1 introduces pharmacy history and dosage forms. Chapter 2 details prescription and posology. Chapter 3 introduces calculations and powders. Chapter 4 introduces liquids. Chapter 5 and 6 explains monophasic and biphasic liquids. Chapter 7 reviews on suppositories. Chapter 8 introduces incompatibilities. Chapter 9 details semisolids.

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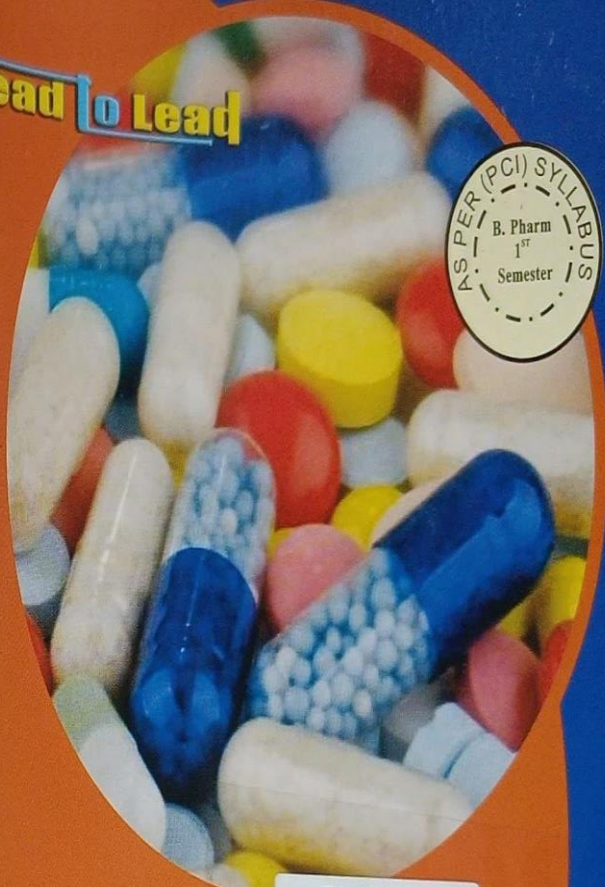
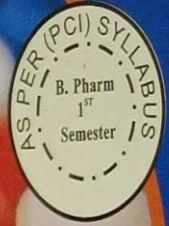
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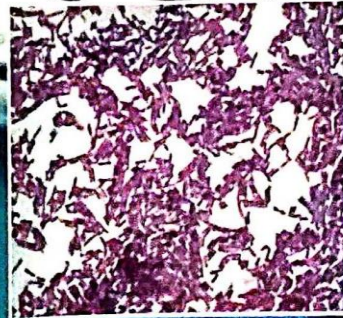
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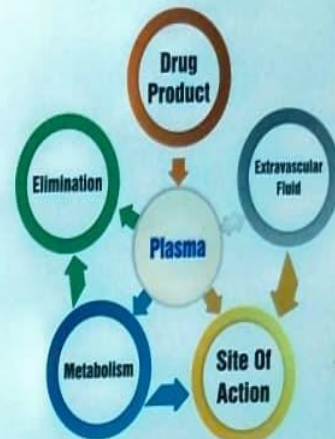
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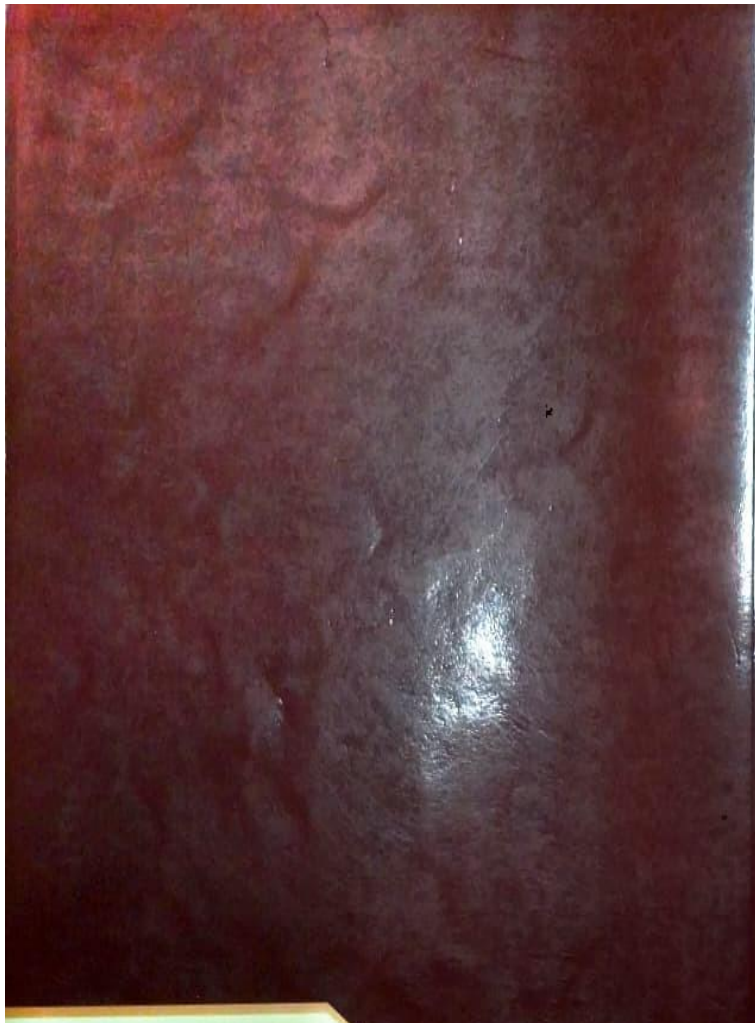
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Strictly as per the new revised syllabus of
Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal
& Pharmacy Council of India (PCI)
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COMMUNICATION SKILLS

Semester I - First Year B. Pharmacy

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Communication Skills

Semester I – First Year B. Pharmacy
Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal

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