

Pharmacognosy

for First Year Diploma in Pharmacy

Course Code: ER20-13T

The fourth edition of this book (theory) is strictly written according to new syllabus framed by Pharmacy Council of India (PCI) as per ER-2020. This book is presented and published to meet the requirements of students of first year Diploma in Pharmacy (D Pharm). The book, written in a simple and lucid language, attempts to demystify and simplify the basic concepts for the students of pharmacy for proper understanding of the subject and to get a sure success in the State Board Examinations.

Salient features of the book :

- All topics are described in an easy to understand language.
- Gives to-the-point answers.
- Covers all the requisite contents as per new syllabus.
- Shows success key in Board Examination.

This book, as well as **CBS Confident Pharmacy Series**, will be useful not only for the students and teachers but also for candidates desiring to attempt competitive examinations for job opportunities in pharmacy profession such as hospital pharmacists in PHCs, civil hospitals, etc.

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He is recipient of 'Best Participation Award' at national level IAPST conference held in 2011. Since 2008, he has been writing books in the field of pharmacy: So far he has published 11 popular titles, each title going to the third edition.

Now, as per PCI's new syllabus (ER-2020), he is in the process of completing fourth edition of 6 titles and bringing out fresh edition of 5 new titles according to the recent subjects introduced in the syllabus.

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According to the latest syllabus prescribed by Pharmacy Council of India under Regulation 7 of the Education Regulations, 2020, for Diploma in Pharmacy course, implemented with strict compliance from 2021-2022 academic session.



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Raje



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VN Raje

CBS Confident Pharmacy Series

Pharmacognosy

Fourth Edition

**for First Year Diploma in Pharmacy
Strictly Based on PCI New Syllabus as per ER-2020**

Salient Features

- Lucid and easy language
- To the point answers
- Remembering the concepts in the simplest way
- Infusing confidence in the reader to appear in the board examinations

CBS Confident Pharmacy Series

Pharmacognosy

Fourth Edition

**for First Year Diploma in Pharmacy
Strictly Based on PCI New Syllabus as per ER-2020**

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Pharmacognosy

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Preface to the Fourth Edition

The fourth edition of the book builds self-confidence in students which helps to get success in the examinations. The book has been written to meet the requirements of students of Diploma in Pharmacy (D Pharm) in accordance with the new revised syllabus ER-2020 prescribed by Pharmacy Council of India.

This book is small and humble effort has been put in for compiling necessary information on the subject. An attempt has been made to demystify and simplify the basic concepts for the students of pharmacy and to enable them get an evergreen success in MSBTE examinations.

The salient features of the present book are:

- Lucid and easy language
- To the point answers
- Remembering facts in the simplest way
- Infusing confidence in the reader to appear in the board examinations.

Hence the series is named

CBS Confident Pharmacy Series

I am confident that this book will be useful to both the students and the teachers of Diploma in Pharmacy as well as the candidates desiring to succeed in competitive examinations for better job opportunities in pharmacy profession such as hospital pharmacists in PHCs, civil hospitals, etc.

Raje Vijay N

to
my beloved family

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I wish all my beloved students to have a great success in the board examinations.

Raje Vijay N

Syllabus
(As per ER 2020)
Pharmacognosy

1. Definition, history, present status and scope of pharmacognosy.
2. **Classification of drugs:** Alphabetical, Taxonomical, Morphological, Pharmacological, Chemical, Chemotaxonomical.
3. **Quality control of crude drugs:** Different methods of adulteration of crude drugs, evaluation of crude drugs.
4. Brief outline of occurrence distribution, isolation, identification tests, therapeutic activity and pharmaceutical applications of alkaloids, terpenoids, glycosides, volatile oils, tannins and resins.
5. Biological source chemical constituents and therapeutic efficacy of the following categories of crude drugs.
 - a. Laxatives—Aloes, Castor oil, Ispaghula, Senna.
 - b. Cardiotonics—Digitalis, Arjuna, Squill.
 - c. Carminatives and GIT regulators—Coriander, Fennel, Cardamom, Ginger, Clove, Black pepper, Asfoetida, Nutmeg, Cinnamon.
 - d. Astringent—Myrobalan, Black catechu, Pale catechu, Galls.
 - e. Drugs acting on nervous system—Hyoscyamus, Belladonna, Ephedra, Opium, Tea leaves, Coffee seeds, Coca, Ashwagandha.
 - f. Anti-hypertensive—Rauwolfia
 - g. Anti-tussives—Tolu balsam, Vasaka, Tulsi
 - h. Anti-rheumatics—Colchicum seed, Guggul
 - i. Anti-tumor—Vinca, Podophyllum
 - j. Anti-leprotics—Chaulmoogra oil
 - k. Anti-diabetics—Pterocarpus, Gymnema
 - l. Diuretics—Gokhru, Punarnava

- m. Anti-dysenterics—Ipecacunha
 - n. Antiseptics and disinfectants—Benzoin, Myrrh, Neem, Turmeric
 - o. Antimalarials—Cinchona, Artemisia
 - p. Oxytocics—Ergot
 - q. Vitamins—Cod liver oil, Shark liver oil
 - r. Enzymes—Papaya, Diastase, Pancreatin, yeast
 - s. Pharmaceutical Aids—Kaolin, Lanolin, Beeswax, Acacia, Tragacanth, Sodium alginate, Agar, Guar gum, Gelatin.
 - t. Miscellaneous—Squill, Galls, Pale Catechu Ashw-gandha, Vasaka, Tulsi, Guggul
6. **Plant fibers used as surgical dressing:** Cotton, Silk, Wool and Regenerated fibers, Sutures—Surgical Catgut and ligatures.
 7.
 - a. Basic principles involved in the alternative system of medicine like: Ayurveda, Sidhha, Unani and Homeo-pathy
 - b. Method of preparation of Ayurvedic formulations like: Arita, Asava, Gutka, Taila, Churna, Lehya and Bhasma.
 8. Role of Medicinal and Aromatic Plants in national economy and their export potential.
 9. **Herbs as health food:** Brief introduction and therapeutic applications of: Nutraceuticals, Antioxidants, Probiotics, Prebiotics, Dietary fibers, Omega-3-fatty acids, spirulina, Carotenoids, Soya and Garlic.
 10. **Herbal cosmetics:** Sources, chemical constituents, commercial preparations, therapeutic and cosmetic uses of: Aloe vera gel, Almond oil, Lavender oil, Olive oil, Rosemary Oil, Sandalwood oil.
 11. Phytochemical investigation of drugs.

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