

# PHARMACEUTICS - I (THEORY)

As per PCI Syllabus



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**Kripa Drishti Publications, Pune.**

**PHARMACEUTICS I –  
(THEORY)  
AS PER PCI SYLLABUS**

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**Kripa-Drishti Publications, Pune.**

Book Title: **Pharmaceutics I - (Theory) As Per PCI Syllabus**

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1<sup>st</sup> Edition

ISBN: **978-93-94570-95-5**



Published: **Jan 2023**

**Publisher:**



**Kripa-Drishti Publications**

A/ 503, Poorva Height, SNO 148/1A/1/1A,  
Sus Road, Pashan- 411021, Pune, Maharashtra, India.

Mob: +91-8007068686

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Web: <https://www.kdpublications.in>

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## **PREFACE**

This textbook explores the fundamental physicochemical attributes and processes important for understanding how a drug, usually in the form of a crystal, is transformed into a usable product that is administered to a patient to reach its pharmacological target and then leaves the body in the spirit of understanding how drugs work. It brings me great pleasure to present my humble work on PHARMACEUTICS I - (THEORY) to a broad community of pharmacy students, written in compliance with the most recent syllabus prescribed for as per PCI Syllabus. Our goal in developing this book is to present basic theory to pharmacy students on modern lines. Keeping in mind the needs of both students and teachers, this book has been prepared to cover all topics within the constraints of the specified syllabus. I hope the book is useful and fits the needs of pupils.

## **Abbreviations**

Active Pharmaceutical Ingredients (API)

All India Council of Technical Education (AICTE)

Banaras Hindu University (BHU)

British Pharmacopoeia Commission (BPC)

Carboxymethylcellulose (CMC)

Education Regulations (ER)

Expert Advisory Groups (EAG)

High Performance Liquid Chromatography (HPLC)

Indian Pharmacopoeia (IP)

Medicines and Healthcare products Regulatory Agency (MHRA)

New Chemical Entities (NCEs)

Oil-In-Water (O/W)

Pharmacy Council of India (PCI)

Polyethylene Glycol (PEG)

Transdermal drug delivery systems (TDDS)

United States Agency for International Development (USAID)

United States Pharmacopeia (USP)

United States pharmacopoeia and the National Formulary (USP-NF)

USP's Drug Quality and Information (USP DQI)

Water-In-Oil (W/O)

World Health Organization (WHO)

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**Kripa-Drishti Publications**  
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Pune – 411021, Maharashtra, India.  
Mob: +91 8007068686  
Email: editor@kdpublishations.in  
Web: <https://www.kdpublishations.in>

Price: ₹ 349

ISBN: 978-93-94570-95-5



9 789394 570955