

Experiment-1

Pharmaceutics

D.Pharma 1st Year Notes

Experiment-1

How to handle and refer the official “Indian Pharmacopoeia” for retrieving formulas and procedures.

PHARMACEUTICS | CHAPTER-1

Chapter-1

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PHARMACEUTICS

According to New Syllabus
D.Pharma 1sy Year की पूरी
जानकारी हिंदी में

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We Learn About This Topic

- History of the profession of Pharmacy in India in relation to Pharmacy education, industry, pharmacy practice, and various professional associations.
- Pharmacy as a career
- Pharmacopoeia: Introduction to IP, BP, USP, NF and Extra Pharmacopoeia. Salient features of Indian Pharmacopoeia

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How to handle and refer the official “Indian Pharmacopoeia” for retrieving formulas and procedures.

Aim:

How to handle and refer the official “Indian Pharmacopoeia” for retrieving formulas and procedures.

Reference:

“Seth A.K” “A text book of Pharmaceutics - I “ Published by [Medical Publisher] S.Vikas and Company edition 2017 Page no 1- 4

Requirements:

The name of the book which has required for this experiment is “ Indian Pharmacopoeia “

Theory:

The Indian Pharmacopoeia is published by the Indian Pharmacopoeia commission (IPC) on behalf of the ministry of health and family welfare Government of India.

- Bengal Pharmacopoeia 1844 - But this book was not made public, just this name was kept.
- Legal and official book published by IPC-1945.
- Indian Pharmacopoeia Headquarter - Ghaziabad (Uttar Pradesh)
- Indian Pharmacopoeia commission (IPC) regulated by Ministry Of Health And Family Welfare.
- Indian Pharmacopoeia is written in English and official title of monographs given in Latin.
- The Indian Pharmacopoeia is being processed to fulfill the requirement in the Drug and Cosmetics Act 1940 and rules 1945.
- In 1946 the government of India published the Indian Pharmacopoeia list which served as the supplement to British Pharmacopoeia.
- After publication of list, the government of India constituted a permanent Indian Pharmacopoeia committee in 1948.

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- Indian Pharmacopoeia committee under chairmanship of Dr. B.N. Ghosh published First Edition of Indian Pharmacopoeia in 1955.
- (Dr. B.N. Ghosh professor of pharmacology. R.Gkar medical College Kolkata who died 1958. After Dr. B.N. Ghosh, Dr. B Mukerji Director Central Drug Research Institute Lucknow (CDRI) was appointed as chairman of the Indian Pharmacopoeia committee.)

Edition	Year	Addendum / Supplement	Chairmanship	Volume
1st	1955	1960	D. B.N. Ghose	One
2nd	1966	1975	Dr. B. Mukherjee	One
3rd	1985	1989/1991	Dr. Nityanand	Two
4th	1996	2000/2002/2005	Dr. Nityanand	Two
5th	2007	2008	Dr. Nityanand	Three
6th	2010	2012	Shri K.Chandramouli	Three
7th	2014	2015/2016	Nabi Azad (Health Minister)	Four
8th	2018	2019/2021	Dr. C.K. Mishra	Four
9th	2022	-	-	Four

Procedure:

- First go to the library and pick the ‘Indian Pharmacopoeia’ According to the Edition & Volume.
- After Searching, I found that the contents of “Indian Pharmacopoeia” are mainly classified into three steps.



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1st Step: (General Notices)

This section provides the basic guidelines for interpretation and application of standard, tests, assay & other specifications of the Pharmacopoeia of India

A Title: The full title of the book, Supplement. It is abbreviated as Indian Pharmacopoeia

Capital letters in the text:

- The name of the pharmacopoeia drugs, preparations & Process Accruing in the text of the Pharmacopoeia are in printed with initial letter in capital and this indicate that material of pharmacopoeia quality must be used

Examples :- Sodium Chloride in water for Injection

Italics:

- Italics types have been used for the systematics names of plants & microorganisms and for some sub-heading & Some parts of the chemical names Examples :- Mercuric Sulphate Solution

Official & Official Articles:

- The Word official means Pharmacopoeial if Indian Pharmacopoeia is written on the label it. It shows that the articles purport to comply with Indian Pharmacopoeia Standards

Added Substance:

- A official drug substance contain no added substance accept where specially permitted in the individual monograph.
- The name & amount of any such substance are mention on the label

Expression of Strength:

- Percent W/W
- Percent W/V
- Percent V/V
- Percent V/W



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2nd Step: (Monograph)

It means written study material of any subject Pharmacopoeial monograph mentioned in Indian Pharmacopoeia provides following information about the drugs & other compounds

- Main title :- Name of Drug
- Synonyms :- Common name of drug
- Chemical formula & molecular weight :-
- Category :-
- Doses :- Paracetamol ‘ 500 mg ‘
- Description :-
 - Physical & Chemical Properties
 - Solubility
 - Standards
 - Identification
 - Test for purity
 - Assay methods
 - Storage

3rd Step (Appendices)

This is the last comprehensive section of pharmacopoeia.

It comprises 123 Appendices contain different information In which 15 are main.

- Appendices 1st :- Details of various biological test & assays
- Appendices 2nd :- Details of chemical test & assays
- Appendices 3rd :- Details of chromatography & electrophoresis
- Appendices 4th :- Details of spectrophotometry
- Appendices 5th :- Details of clarity & color of solution

Result:

I issued the Indian Pharmacopoeia 1996 from Library and read carefully the important points about certain drugs it was found that there were so many monographs in I.P.

