

Pharmaceutics Important Questions

D.Pharma 1st year

Syllabus & Questions

Chapter-1

- **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**

Questions:

- What is a pharmacopoeia?
- What are some of the salient features of the Indian Pharmacopoeia?
- What are some of the responsibilities of a pharmacist in India?
- Explain the history of pharmacy in India.
- Explain the Pharmacy as a career.

Chapter: 2

- **Packaging materials: Types, selection criteria, advantages and disadvantages of glass, plastic, metal, rubber as packaging materials**

Questions:

- Explain the Packaging Material.
- Write short notes on pharmaceutical packaging and discuss about different packaging materials.
- Write a short note on Rubber packaging material in pharmaceutical.
- Write the brief note on object and Ideal properties of Packing.
- Describe the various Materials used in packaging.
- Discuss the advantage and disadvantage of metal packaging.

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- Write the advantage and disadvantage of Metal, Glass.

Chapter: 3

- **Pharmaceutical aids: Organoleptic (Colouring, flavouring, and sweetening) agents**
- **Preservatives: Definition, types with examples and uses**

Questions:

- Define the term "pharmaceutical aid" and explain its role in medications.
- Classify different types of pharmaceutical aids with examples.
- Explain the functions of diluents, binders, and disintegrants in tablets.
- How do lubricants and glidants improve the processing and performance of tablets?
- Why are preservatives added to some medications?
- What is Preservatives?

Chapter: 4

- **Size reduction: hammer mill and ball mill**
- **Size separation: Classification powder according to IP, Cyclone separator, Sieves and standards of sieves**
- **Mixing: Double cone blender, Turbine mixer, Triple roller mill and Silverson mixer homogenizer**
- **Filtration: Theory of filtration, membrane filter and sintered glass filter**
- **Drying: working of fluidized bed dryer and process of freeze drying**
- **Extraction: Definition, Classification, method and applications**

Questions:

- Explain the size reduction. Give the construction, working, principle of Hammer Mill and Ball Mill.
- Describe two methods for size reduction.
- Write short note on drying?
- Write the short note on size separation give the construction working principle of this cyclone separator.
- Describe sieves with types and standards of sieves
- Describe the process of granulation.
- Write about filtration explain the equipments used in filtration example Sintered filter.
- Write principle construction working application merits and demerits of the fluidized bed dryer. Describe note on Extraction definition, classification, method, and Application.

Chapter-5

- Tablets – coated and uncoated, various modified tablets (sustained release, extended-release, fast dissolving, double layered)
- Capsules – hard and soft gelatine capsules
- Liquid oral preparations – solution, syrup, elixir, emulsion, suspension, dry powder for reconstitution
- Topical preparations – ointments, creams, pastes, gels, liniments and lotions, suppositories and pessaries Nasal preparations, Ear preparations
- Powders and granules – Insufflations, dusting powders, effervescent powders and effervescent granules
- Sterile formulations – Injectables, eye drops and eye ointments
- Immunological products: Sera, vaccines, toxoids and their manufacturing methods.

Questions:

- Define sustained release drugs.
- What is coated and uncoated tablets?
- What is the difference between wet granulation, dry granulation.
- Define any three of the following:
 - a) Elixirs
 - b) Creams
 - c) Vaccines
 - d) Insufflations
- Define Capsule and there advantage and Disadvantage
- What are extended-release tablets coated with?
- What are hard and soft gelatin capsules?
- What are the two types of gelatin capsules?
- Write the short note on liquid oral preparation with classification.
- What is difference between syrup and elixir?
- Write this short note on powder and granules.
- Write the note on
 - a) Ointments
 - b) Cream
 - c) Suppositories
- Write different between Flocculated and Deflocculated Suspension.
- Write short note on - Storage of immunological products.
- What is insufflation and dusting powder?
- What are the powder and granules for dusting powder?
- What is sterile ophthalmic ointment?
- What are sterile eye drops?
- What is the formulation of eye ointment?
- What are the different types of sterile preparations?
- What is the immunological product Sera?

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Chapter:6

- **Basic structure, layout, sections and activities of pharmaceutical manufacturing plants** **Quality control and quality assurance: Definition and concepts of quality control & quality assurance, current good manufacturing practice (cGMP), Introduction to concept of calibration and validation**

Questions:

- Draw the layout of Pharmaceutical manufacturing plants.
- What are the basic concepts of quality assurance and quality control?
- Explain the concept of calibration and validation.
- What are the basic structure layout sections and activities of pharmaceutical manufacturing plants?
- Write the details note on GMP (Good Manufacturing Practice)

Chapter:7

- **Novel drug delivery systems: Introduction, Classification with examples, advantages and challenges**

Questions:

- What is novel drug delivery system?
- What are the advantages and challenges of novel drug delivery system?
- Classify Novel Drug Delivery System

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