

WELCOME

TO



This is an Education Platform

We Provide PDF Notes for Pharmacy Students

Web Site <http://www.fdspharmacy.in/>

You tube <https://www.youtube.com/c/FDSpharmacy>

Telegram <https://t.me/Fdspharmacy>

App <https://play.google.com/store/apps/details?id=com.FDSPharmacyMedia.FDSPharmacy>

E-mail fdsparmacyinfo@gmail.com

Bachelor of Pharmacy Communication skills

NOTES

✓ Unit 1 **All Unit**
✓ Unit 2 **in**
✓ Unit 3 **One PDF**
✓ Unit 4
✓ Unit 5

Visit our Website
WWW.fdspharmacy.in



Bachelor of Pharmacy Human Anatomy and Physiology I

NOTES

✓ Unit 1 **All Unit**
✓ Unit 2 **in**
✓ Unit 3 **One PDF**
✓ Unit 4
✓ Unit 5

Visit our Website
WWW.fdspharmacy.in



✓ Unit 1 **All Unit**
✓ Unit 2 **in**
✓ Unit 3 **One PDF**
✓ Unit 4
✓ Unit 5

Visit our Website
WWW.fdspharmacy.in



Bachelor of Pharmacy Pharmaceutical Inorganic Chemistry

NOTES

✓ Unit 1 **All Unit**
✓ Unit 2 **in**
✓ Unit 3 **One PDF**
✓ Unit 4
✓ Unit 5

Visit our Website
WWW.fdspharmacy.in



Bachelor of Pharmacy Remedial Biology

NOTES

✓ Unit 1 **All Unit**
✓ Unit 2 **in**
✓ Unit 3 **One PDF**
✓ Unit 4
✓ Unit 5

Visit our Website
WWW.fdspharmacy.in



Bachelor of Pharmacy Pharmaceutics I

NOTES

✓ Unit 1 **All Unit**
✓ Unit 2 **in**
✓ Unit 3 **One PDF**
✓ Unit 4
✓ Unit 5

Visit our Website
WWW.fdspharmacy.in





D.Pharma B.Pharma

- 👉 PDF Notes
- 👉 Practical Manual
- 👉 Important Questions
- 👉 Assignment etc



Download Now



www.fdpharmacy.in

PHARMACEUTICS – I

UNIT 2

TOPIC :

- **Powders** : Definition, classification, advantages and disadvantages, Simple & compound powders- official preparations, dusting powders, effervescent, efflorescent and hygroscopic powders, eutectic mixtures. Geometric dilutions.



Powder

→ A powder is a homogeneous mixture of more or less finely divided particle or material in dry form. It is a solid dosage form of medicament which are meant for internal and external uses. They are present in crystalline and amorphous form.

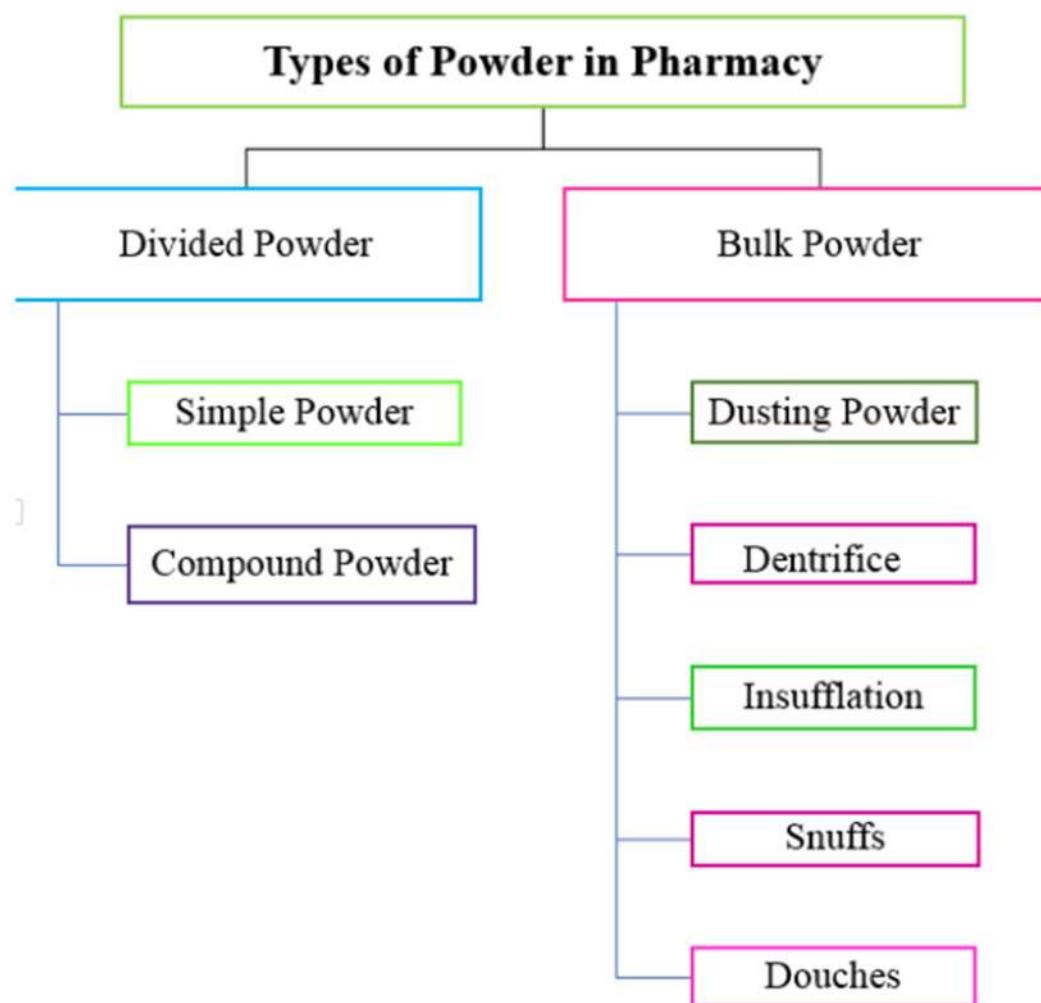
Advantages

- ✓ They are more stable
- ✓ Easy to handle
- ✓ It is used both internally and externally
- ✓ Chances of incompatibility are less
- ✓ They show rapid therapeutic effect.
- ✓ Ease in administration to all categories of patients.
- ✓ They are economical because they do not require special technique or machinery

Disadvantages

- ◆ Drugs having bitter, nauseous and unpleasant taste cannot be dispensed in powdered form.
- ◆ It gives slow response than liquid dosage form
- ◆ Drugs which get affected by atmospheric conditions are not suitable for dispensing in powder form.
- ◆ Time Consuming Process.

Classification



Divided Powder

→ These are unit dose powders normally packed properly

Simple Powder :

- ◆ These are those type of powder which contain only one ingredient.
- ◆ Which are packed in a folded paper and dispensed in small plastic bags.
- ◆ The powder should not be less than 100 mg
 - Eg : Aspirin

Compound Powder :

- ◆ Contains two or more than two substances which are mixed together and then divided into individual doses.
- Eg : Corace SP

Bulk Powder

→ These are those type of powder which are stored or dispensed in bulk form i.e. powder are delivered in large quantity

→ They are mainly dispensed in wide mouth container. It contains non-potent substance like Antacids, Laxatives, etc

Dusting Powder

- ◆ These are those powder which are meant for external application to the skin for local action.
- ◆ They are applied in very fine state to avoid local irritation.
 - Eg : Salicylic acid

Properties of dusting powder

- Dusting powder should be homogeneous in nature.
- It should have non-irritable property.

- It should be Free flowing.
- Powder should have good spreadability.
- Dusting powder should not be applied to broken skin.

Effervescent Powder

- ◆ They are specially prepared solid dosage form of medicament meant for internal use.
- ◆ They contain medicament (API) mixed with citric acid, tartaric acid and sodium bicarbonate.
- ◆ Saccharine may be added as sweetening agent Before administration the desired quantity is dissolved in water the acid and bicarbonate react together producing effervescence (releasing CO₂)
- ◆ This mixture should be taken while effervesing
- ◆ Eg : ENO, Aspirin, etc...

Dentifrices

- ◆ These are those substance which are meant for external use and applied with the help of tooth brush for cleaning the surface of teeth.
- ◆ They are available as tooth powder, tooth paste, liquid, and gels.
- ◆ Eg : Saccharine sodium, etc...

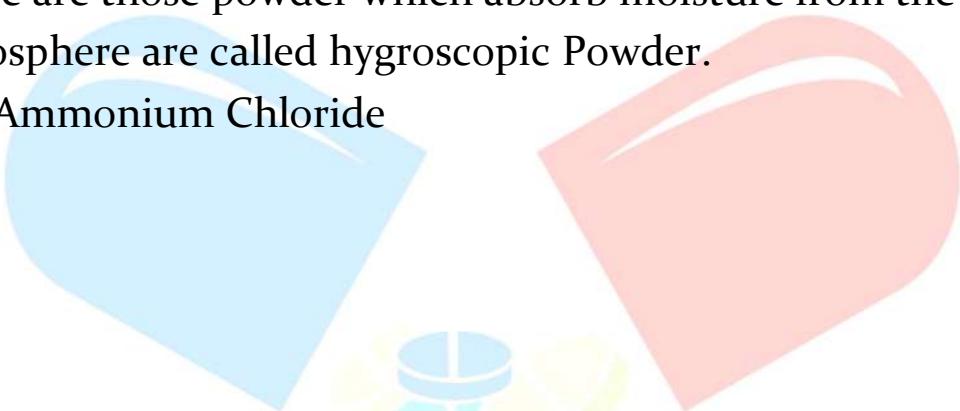
Efflorescent Powder

- ◆ When some substances are exposed to air they lose water to the atmosphere thereby reducing in weight Solids that behave in this way are those with water of crystallization.
- ◆ The molecules of water of crystallization are partially or completely lost to the atmosphere, thereby making them to lose their crystalline forms

- ◆ Basically, These are those substance which loses water to form a lower hydrate or become anhydrous is termed as efflorescent.
- ◆ Present in form of crystals granules.
- ◆ Eg : Sodium Carbonate, etc...

Hygroscopic Powder

- ◆ These are those powder which absorb moisture from the atmosphere are called hygroscopic Powder.
- ◆ Eg : Ammonium Chloride



FDSPharmacy
Learn and Educate

Eutectic Mixtures

- A eutectic mixture is a combination of two or more components that melt or solidify at a single, fixed temperature which is lower than the melting point of any individual component in the mixture. This temperature is called the eutectic point.
- Eg : Salt and Water (NaCl + H₂O)

Geometric Dilution

- Geometric dilution (also known as geometric mixing or geometric progression blending) is a method used in pharmacy and chemical mixing to evenly distribute small amounts of a potent substance (like a drug) throughout a larger quantity of diluent or base.
- It ensures uniform distribution of ingredients, especially when the drug quantity is very small compared to the excipient (carrier substance).
- Eg : 15 grams of lactose (diluent)

Learn and Educate

