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**Course Name : D. Pharm**  
**Year : First Year**  
**Subject Name : Pharmaceutics**  
**Topic Name : SIZE SEPARATION**

**MULTIPLE CHOICE QUESTION**

1. Which size separation method relies on the use of a screen or perforated surface to separate particles based on their size?

- A) Filtration
- B) Sedimentation
- C) Screening
- D) Centrifugation

**Answer: C) Screening**

2. What size separation method involves the settling of particles under the influence of gravity in a liquid medium?

- A) Filtration
- B) Sedimentation
- C) Screening
- D) Centrifugation

**Answer: B) Sedimentation**

3. Which method of size separation involves the use of centrifugal force to separate particles based on their size and density?

- A) Filtration
- B) Sedimentation
- C) Screening
- D) Centrifugation

**Answer: D) Centrifugation**

4. In which size separation method are particles separated based on their ability to pass through a porous medium under the influence of pressure?

- A) Filtration
- B) Sedimentation
- C) Screening
- D) Centrifugation

**Answer: A) Filtration**

5. Which size separation method is commonly used in the pharmaceutical industry for separating particles based on their size and shape?

- A) Filtration
- B) Sedimentation
- C) Screening
- D) Centrifugation

**Answer: C) Screening**

**6.** What is the primary mechanism of size separation in sedimentation?

- A) Gravitational settling
- B) Passage through pores
- C) Centrifugal force
- D) Impact with a screen

**Answer: A) Gravitational settling**

**7.** Which size separation method is most effective for separating fine particles from a liquid suspension?

- A) Filtration
- B) Sedimentation
- C) Screening
- D) Centrifugation

**Answer: D) Centrifugation**

**8.** What is the primary mechanism of size separation in centrifugation?

- A) Gravitational settling
- B) Passage through pores
- C) Centrifugal force
- D) Impact with a screen

**Answer: C) Centrifugal force**

**9.** Which size separation method is based on the ability of particles to pass through a filter medium?

- A) Filtration
- B) Sedimentation
- C) Screening
- D) Centrifugation

**Answer: A) Filtration**

**10.** What is the primary mechanism of size separation in filtration?

- A) Gravitational settling
- B) Passage through pores
- C) Centrifugal force

D) Impact with a screen

**Answer: B) Passage through pores**

**11.** Which size separation method utilizes a mesh or screen to separate particles based on their size?

A) Sieving

B) Cyclone separator

C) Air separator

D) Filtration

**Answer: A) Sieving**

**12.** In a cyclone separator, particles are separated based on:

A) Gravitational settling

B) Centrifugal force

C) Passage through pores

D) Impact with a screen

**Answer: B) Centrifugal force**

**13.** Air separators are commonly used for:

A) Separating particles based on size

B) Separating particles based on density

C) Separating particles based on shape

D) Separating particles based on color

**Answer: B) Separating particles based on density**

**14.** Sieving is effective for separating particles that are:

A) Larger than the mesh size

B) Smaller than the mesh size

C) Irregular in shape

D) Dissolved in a liquid

**Answer: A) Larger than the mesh size**

**15.** Which of the following is a primary application of cyclone separators?

A) Filtration of liquids

B) Separation of gases from liquids

C) Separation of solid particles from gases

D) Separation of dissolved solids from solutions

**Answer: C) Separation of solid particles from gases**

**16.** Air separators work by:

- A) Using gravity to separate particles
- B) Applying pressure to separate particles
- C) Employing air flow to separate particles
- D) Using magnetic fields to separate particles

**Answer: C) Employing air flow to separate particles**

**17.** Which of the following describes the operation of a cyclone separator?

- A) High-speed rotation of a rotor
- B) Passage of particles through a mesh
- C) Centrifugal force generated by air flow
- D) Gravitational settling of particles in a liquid

**Answer: C) Centrifugal force generated by air flow**

**18.** The main principle behind sieving is:

- A) Gravitational settling
- B) Centrifugal force
- C) Passage through pores
- D) Size-based separation on a mesh

**Answer: D) Size-based separation on a mesh**

**19.** Cyclone separators are commonly used in industries such as:

- A) Food processing
- B) Pharmaceutical manufacturing
- C) Oil and gas refining
- D) Textile production

**Answer: C) Oil and gas refining**

**20.** Air separators are particularly useful for separating materials that have:

- A) Similar densities
- B) Significant size differences
- C) High moisture content
- D) Magnetic properties

**Answer: B) Significant size differences**