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Course Name : D. Pharm
Year : First Year
Subject Name : Pharmaceutics
Topic Name : FILTRATION

MULTIPLE CHOICE QUESTION

1. Which type of filter operates by trapping particles larger than its pore size as the fluid flows through it?
 - A) Sieve filter
 - B) Depth filter
 - C) Membrane filter
 - D) Precoat filter
 - **Answer: A) Sieve filter**
2. What is the primary mechanism of action of a membrane filter?
 - A) Adsorption
 - B) Sieving
 - C) Diffusion
 - D) Sedimentation
 - **Answer: B) Sieving**
3. Which of the following filters is commonly used for the removal of suspended solids from wastewater?
 - A) Sieve filter
 - B) Depth filter
 - C) Precoat filter
 - D) Membrane filter
 - **Answer: B) Depth filter**
4. Which type of filter is characterized by a thin layer of filter aid applied to the filter medium?
 - A) Sieve filter
 - B) Depth filter
 - C) Precoat filter
 - D) Membrane filter
 - **Answer: C) Precoat filter**
5. What is the main advantage of using a membrane filter over other types of filters?
 - A) Higher flow rate
 - B) Greater retention capacity

- C) Precise particle size exclusion
- D) Lower maintenance requirements

• **Answer: C) Precise particle size exclusion**

6. Which type of filter is typically used for the sterilization of liquids in pharmaceutical applications?

- A) Sieve filter
- B) Depth filter
- C) Membrane filter
- D) Precoat filter

• **Answer: C) Membrane filter**

7. In which type of filter does the fluid flow perpendicular to the filter medium?

- A) Dead-end filter
- B) Cross-flow filter
- C) Precoat filter
- D) Membrane filter

• **Answer: B) Cross-flow filter**

8. What distinguishes a dead-end filter from a cross-flow filter?

- A) Dead-end filters have a thicker filter medium.
- B) Cross-flow filters require higher operating pressures.
- C) Dead-end filters operate with fluid flowing parallel to the filter surface.
- D) Cross-flow filters are more prone to fouling.

• **Answer: C) Dead-end filters operate with fluid flowing parallel to the filter surface.**

9. Which type of filter is commonly used for air purification in HVAC systems?

- A) Membrane filter
- B) Sieve filter
- C) Depth filter
- D) Precoat filter

Answer: B) Sieve filter

10. What is the primary function of a sieve filter?

- A) To remove dissolved contaminants from a liquid stream
- B) To separate particles based on size by trapping them within the filter medium
- C) To facilitate the flow of fluid through a porous medium
- D) To enhance the clarity of a liquid by removing suspended solids

• **Answer: B) To separate particles based on size by trapping them**

within the filter medium