



Dr. Arvind Kumar Gupta
(M.Pharm, PDCR, PGDMM & Ph.D)
GATE 2003 Qualified with 97.2 percentile
Dr. S. N. Dev College of Pharmacy
Shamli (U.P.)

OFFICE: BUILDING No. 3/314, OFFICE-1, GAUSHALA ROAD, SHAMLI DISTRICT SHAMLI (U.P.) – 247776

Mobile: +91-9719638415

Email: arindrkgit@gmail.com

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

MULTIPLE CHOICE QUESTION

1. What is the principle behind the operation of a fluidized bed dryer?

- A) Conduction
- B) Convection
- C) Radiation
- D) Fluidization

Answer: D) Fluidization

2. In a fluidized bed dryer, what is used to fluidize the solid particles?

- A) Hot air
- B) Water
- C) Steam
- D) Inert gas

Answer: A) Hot air

3. What is the purpose of fluidizing the solid particles in a fluidized bed dryer?

- A) To increase their density
- B) To reduce their size
- C) To improve heat transfer
- D) To prevent oxidation

Answer: C) To improve heat transfer

4. Which of the following statements about fluidized bed dryers is true?

- A) They rely on conduction for heat transfer
- B) They are only suitable for drying fine powders
- C) They have a fixed bed of solid particles
- D) They offer uniform drying and efficient heat transfer

Answer: D) They offer uniform drying and efficient heat transfer

5. How does the airflow in a fluidized bed dryer affect the drying process?

- A) It decreases the temperature inside the dryer
- B) It increases the residence time of particles
- C) It helps in agglomeration of particles
- D) It facilitates moisture removal from the particles

Answer: D) It facilitates moisture removal from the particles

6. What happens to the solid particles when the fluidizing velocity in a fluidized bed dryer is too low?
- A) They remain stationary at the bottom
 - B) They are ejected out of the dryer
 - C) They become too hot
 - D) They agglomerate and form lumps

Answer: A) They remain stationary at the bottom

7. What is the advantage of using a fluidized bed dryer over other drying methods?
- A) Faster drying time
 - B) Lower energy consumption
 - C) Reduced risk of product degradation
 - D) Higher moisture content in the final product

Answer: C) Reduced risk of product degradation

8. What type of materials are commonly dried using fluidized bed dryers?
- A) Liquids
 - B) Gases
 - C) Solids
 - D) Emulsions

Answer: C) Solids

9. What is the maximum temperature typically used in a fluidized bed dryer?
- A) Below 100°C
 - B) Around 200°C
 - C) Above 300°C
 - D) Varies depending on the material being dried

Answer: D) Varies depending on the material being dried

10. Which of the following industries commonly utilizes fluidized bed dryers?
- A) Textile industry
 - B) Food industry
 - C) Pharmaceutical industry
 - D) Automotive industry

Answer: C) Pharmaceutical industry