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

MULTIPLE CHOICE QUESTION

1. What is the standard sieve size commonly used for particle size analysis in pharmaceutical and chemical industries?

- A) 5 microns
- B) 100 microns
- C) 200 microns
- D) 500 microns

Answer: C) 200 microns

2. ASTM E11 is a standard specification for:

- A) Pharmaceutical tablets
- B) Stainless steel
- C) Industrial sieves
- D) Liquid filtration

Answer: C) Industrial sieves

3. The mesh number of a sieve corresponds to:

- A) The number of layers in the sieve
- B) The size of the particles retained on the sieve
- C) The size of the openings in the sieve
- D) The weight of the sieve

Answer: C) The size of the openings in the sieve

4. What does the term "mesh size" refer to in sieves?

- A) The total surface area of the sieve
- B) The number of holes per square inch in the sieve
- C) The weight of the sieve
- D) The thickness of the sieve material

Answer: B) The number of holes per square inch in the sieve

5. Which of the following is a commonly used material for manufacturing sieves?

- A) Plastic
- B) Glass
- C) Aluminum
- D) Ceramic

Answer: C) Aluminum

6. The U.S. Standard Sieve Series is based on:

- A) Metric units
- B) Imperial units
- C) Both metric and imperial units
- D) Weight measurements

Answer: B) Imperial units

7. According to the U.S. Standard Sieve Series, what is the largest sieve opening size?

- A) No. 3
- B) No. 4
- C) No. 12
- D) No. 100

Answer: A) No. 3

8. ISO 3310 specifies methods for:

- A) Pharmaceutical analysis
- B) Determination of sieve mesh sizes
- C) Calibration of laboratory equipment
- D) Chemical synthesis

Answer: B) Determination of sieve mesh sizes

9. The sieve shaker is used to:

- A) Calibrate sieves
- B) Determine the weight of particles retained on a sieve
- C) Agitate sieves to facilitate particle separation
- D) Measure the density of particles

Answer: C) Agitate sieves to facilitate particle separation

10. The mesh size of a sieve is defined as the number of openings per:

- A) Centimeter
- B) Square inch
- C) Millimeter
- D) Meter

Answer: B) Square inch