

2ND INTERNAL EXAM; B.Pharm; Sem-3

SUBJECT-PHARMACEUTICAL ENGINEERING

SUBJECT CODE-BP304T

DATE OF EXAM:- 18-08-2020

A.Y-2020-2021

Class-B.Pharm; Sem-3

***INSTRUCTIONS:-**

1. All questions are compulsory.
2. Each question is having one mark.
3. Submit your answer by choosing only one correct option.
4. Max Marks - 35

* Required

1. Email address *

2. ENROLLMENT NUMBER:- *

3. NAME OF STUDENT:- *

4. 1. Which of the following factor is NOT affecting on the process of size reduction? *

Mark only one oval.

- A. Viscosity
- B. Hardness
- C. Stickiness
- D. Abrasiveness

5. 2. The size reduction of thermolabile materials like vitamins and antibiotics is done by _____ *

Mark only one oval.

- A. Hammer Mill
 B. Fluid Energy Mill
 C. Ball Mill
 D. Triple Roller Mill

6. 3. Break down of a material by rubbing action between the two surfaces is called _____ *

Mark only one oval.

- A. Impact
 B. Crushing
 C. Attrition
 D. Compression

7. 4. Size Reduction is also known as _____ *

Mark only one oval.

- A. Comminution
 B. Diminution
 C. Pulverization
 D. All of the above

8. 5. _____ says that energy required in size reduction process is proportional to the new surface area produced. *

Mark only one oval.

- A. Rittinger's Theory
 B. Kick's Theory
 C. Bond's Theory
 D. Walker's Theory

9. 6. The process of size reduction helps in _____ *

Mark only one oval.

- A. Increase Size
 B. Decreases Size and Increases Stability of Materials
 C. Decreases Absorption
 D. Decreases Solubility

10. 7. For ease of size reduction, material must be _____ *

Mark only one oval.

- A. Soft, Tough
 B. Hard, Tough
 C. Hard, Brittle
 D. Soft, Brittle

11. 8. Crystalline and amorphous substances are _____ and _____ to reduce size. *

Mark only one oval.

- A. Easy, Easy
 B. Easy, Hard
 C. Hard, Hard
 D. Hard, Easy

12. 9. _____ is NOT used for size reduction process. *

Mark only one oval.

- A. Stroke's Law
- B. Bond's Law
- C. Kick's Law
- D. Rittinger's Law

13. 10. _____ is the value of 'N' for Kick's Law *

Mark only one oval.

- A. 2
- B. 1
- C. 3
- D. 4

14. 11. Size Separation is not based on _____ *

Mark only one oval.

- A. Particle Size
- B. Particle Shape
- C. Particle Texture
- D. Particle Density

15. 12. Which powder is known as "Course Powder" from the following? *

Mark only one oval.

- A. It is a powder in which all particles must pass through the sieve no. 120
- B. It is a powder in which all particles must pass through the sieve no. 80
- C. It is a powder in which all particles must pass through the sieve no. 20
- D. It is a powder in which all particles must pass through the sieve no. 10

16. 13. Sieve Number is defined as _____ *

Mark only one oval.

- A. The number of meshes in a length of 25.4 mm in each direction parallel to the wires.
- B. The number of meshes in a length of 2540 mm in each direction parallel to the wires.
- C. The number of meshes in a length of 254 mm in each direction parallel to the wires.
- D. The number of meshes in a length of 28.4 mm in each direction parallel to the wires.

17. 14. The distance between the wires, that represents the length of the side of the square aperture is called _____ *

Mark only one oval.

- A. Nominal Diameter of wire
- B. Nominal Size of the Aperture (Hole)
- C. Approximate Screening Area
- D. Aperture Tolerance Average

18. 15. _____ is known as wet sieving method? *

Mark only one oval.

- A. Sedimentation
- B. Elutriation
- C. Both A & B
- D. Agitation

19. 16. In _____ centrifugal force is used to separate solids from liquids. *

Mark only one oval.

- A. Ball Mill
- B. Fluid Energy Mill
- C. Hammer Mill
- D. Cyclone Separator

20. 17. _____ is attached to ball mill and hammer mill to separate and return oversize particles for further size reduction. *

Mark only one oval.

- A. Air Separator
- B. Sieve
- C. Beaker
- D. Measuring Cylinder

21. 18. _____ method for size separation is based on low density of fine particles and high density of coarse particles. *

Mark only one oval.

- A. Sedimentation
- B. Elutriation Method
- C. Air Separator
- D. Bag Filter

22. 19. Identify tumbling mill from the following. *

Mark only one oval.

- A. Fluid Energy Mill
- B. Hammer Mill
- C. Ball Mill
- D. Cutter Mill

23. 20. Nozzle is introduced for free movement of material in _____ *

Mark only one oval.

- A. Hammer Mill
- B. Ball Mill
- C. Cutter Mill
- D. Fluid Energy Mill

24. 21. _____ is the mechanism of size separation *

Mark only one oval.

- A. Brushing Method
- B. Impact
- C. Attrition
- D. Compression

25. 22. Reynold's Number is inversely proportional to _____ of the following. *

Mark only one oval.

- A. Pipe Diameter
- B. Viscosity of the fluid
- C. Density of the Fluid
- D. Velocity of the Fluid

26. 23. Flow of the fluid in parallel straight line is known as _____ *

Mark only one oval.

- A. Critical Flow
- B. Turbulent Flow
- C. Laminar Flow
- D. All of the Above

27. 24. _____ method is useful to achieve size reduction process. *

Mark only one oval.

- A. Impact
- B. Attrition
- C. Crushing
- D. Precipitation Method

28. 25. In Bernouli's Theorem, Loss of Energy is indicated as _____ *

Mark only one oval.

- A. - F J
- B. + W J
- C. XA
- D. XB

29. 26. _____ is helpful to control supply of air in fermenters. *

Mark only one oval.

- A. Orifice Meter
- B. Rotameter
- C. Venturimeter
- D. Pitot Tube

30. 27. _____ is widely useful for the measurement of flow rate of gases and liquids. *

Mark only one oval.

- A. Orifice Meter
 B. Rotameter
 C. Venturi Meter
 D. Pitot Tube

31. 28. If the all material is passed from sieve no. 22 and 40% of the same material is passed from sieve no. 60; then the material is known as _____ *

Mark only one oval.

- A. Coarse Powder
 B. Fine Powder
 C. Very Fine Powder
 D. Moderately Coarse Powder

32. 29. If the all material is passed from sieve no. 120; then the material is known as _____ *

Mark only one oval.

- A. Very Fine Powder
 B. Fine Powder
 C. Coarse Powder
 D. Moderately Fine Powder

33. 30. If the all material is passed from sieve no. 44 and 40% of the same material is passed from sieve no. 85; then the material is known as _____ *

Mark only one oval.

- A. Coarse Powder
 B. Moderately Fine Powder
 C. Fine Powder
 D. Moderately Coarse Powder

34. 31. In _____, Sensing Element is present to measure the flow rate of fluid. *

Mark only one oval.

- A. Orifice Meter
 B. Rota Meter
 C. Pitot Tube
 D. Venturimeter

35. 32. _____ is known as "Insertion Meter" or "Insertion Tube" *

Mark only one oval.

- A. Rotameter
 B. Venturimeter
 C. Orifice Meter
 D. Pitot tube

36. 33. _____ is known as "Area Meter" as it measures the area of the flow. *

Mark only one oval.

- A. Rotameter
 B. Pitot Tube
 C. Orifice meter
 D. Venturimeter

37. 34. Plummet is present in _____ *

Mark only one oval.

- A. Orifice Meter
- B. Rotameter
- C. Venturimeter
- D. Pitot Tube

38. 35. Identify Following Figure. *

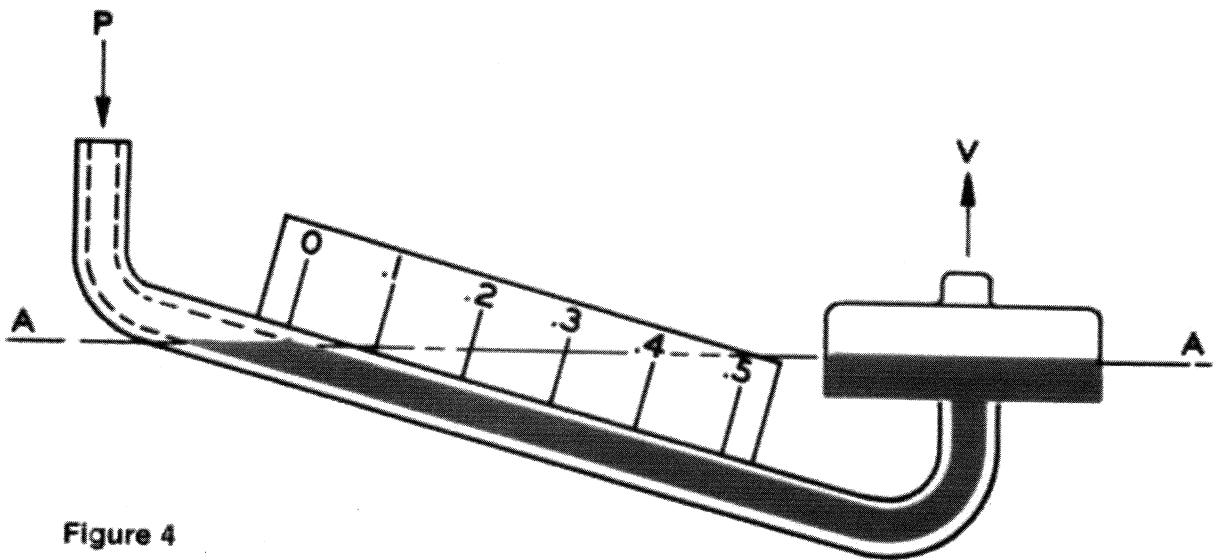


Figure 4

Mark only one oval.

- A. Venturimeter
- B. Orifice Meter
- C. Inclined Manometer
- D. Differential Manometer

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