

# IMPROVEMENT EXAM; B.Pharm; Sem-3

SUBJECT-PHARMACEUTICAL ENGINEERING

SUBJECT CODE-BP304T

DATE OF EXAM:-24-09-2020 (Thursday)

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 \*

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2. ENROLLMENT NUMBER:- \*

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3. NAME OF STUDENTS:- \*

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4. 1. \_\_\_\_\_ is batch type equipment used for mixing. \*

*Mark only one oval.*

- A. Double Cone Blender
- B. Barrel Type Mixer
- C. Zigzag Type Mixer
- D. All of the Above

5. 2. \_\_\_\_\_ is having mechanism of tumbling action shearing with blade and convection. \*

*Mark only one oval.*

- A. Ribbon Blander
- B. V cone blender with a mixing blade
- C. Sigma Blender
- D. Planetary Paddle

6. 3. \_\_\_\_\_ is having mechanism of air supported blending, expansion with gases, diffusive and pneumatic and also known as Air Mixers. \*

*Mark only one oval.*

- A. Ribbon Blender
- B. Sigma Blender
- C. Fluidized Mixer
- D. Planetary Paddle

7. 4. \_\_\_\_\_ are placed to control the direction and velocity of the flow to the impeller. \*

*Mark only one oval.*

- A. Paddle
- B. Propeller
- C. Turbine
- D. Draft Tubes

8. 5. \_\_\_\_\_ produces intense shearing force and turbulence by the use of high speed rotors. \*

*Mark only one oval.*

- A. Silverson - Mixer Emulsifier.
- B. Propeller
- C. Paddle
- D. Turbines.

9. 6. \_\_\_\_\_ is an example of Shear Mixers. \*

*Mark only one oval.*

- A. Sigma Mixer
- B. Triple Roller Mill
- C. Planetary Mixer
- D. Silverson Emulsifiers

10. 7. How many rollers are there in triple roller mill? \*

*Mark only one oval.*

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

11. 8. \_\_\_\_\_ is having batch size of 250 kg or less in pharmaceutical drying for drying of material. \*

*Mark only one oval.*

- A. Drum Dryer  
 B. Fluidized Bed Dryer  
 C. Vacuum Dryer  
 D. Tray Dryer

12. 9. Atomization of liquid takes place in \_\_\_\_\_ during drying process. \*

*Mark only one oval.*

- A. Spray Dryer  
 B. Tray Dryer  
 C. Vacuum Dryer  
 D. Drum Dryer

13. 10. The synonym of "Freeze Drying" process is \_\_\_\_\_ \*

*Mark only one oval.*

- A. Distillation  
 B. Lyophilization  
 C. Evaporation  
 D. Heat Transfer

14. 11. \_\_\_\_\_ are synonyms of drum dryer. \*

*Mark only one oval.*

- A. Roller Dryer  
 B. Film Drum Dryer  
 C. Both A and B  
 D. None of the above

15. 12. \_\_\_\_\_ is the minimum water held by the material that exerts an equilibrium vapour pressure less than the pure water at the same temperature. \*

*Mark only one oval.*

- A. Equilibrium Moisture Content
- B. Critical Moisture Content
- C. Unbound Water
- D. Bound Water

16. 13. \_\_\_\_\_ is the amount of water that is easy to evaporate from the solid surface. \*

*Mark only one oval.*

- A. Free Moisture Content
- B. Equilibrium Moisture Content
- C. Critical Moisture Content
- D. All of the Above

17. 14. How many stages are involved for the drying of material by using spray dryer? \*

*Mark only one oval.*

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

18. 15. How many stages are involved for the drying of material by using freeze dryer? \*

*Mark only one oval.*

- A. 4  
 B. 3  
 C. 5  
 D. 1

19. 16. \_\_\_\_\_ is suitable for non-viscous solutions that do not deposit scales or crystals on evaporation. \*

*Mark only one oval.*

- A. Vertical Tube Evaporator  
 B. Multiple Effect Evaporator  
 C. Climbing Film Evaporator  
 D. Horizontal Tube Evaporator

20. 17. \_\_\_\_\_ is suitable for evaporation of foam forming liquids, as foam can be broken by and entrainment separator. \*

*Mark only one oval.*

- A. Climbing Film Evaporator  
 B. Multiple Effect Evaporator  
 C. Horizontal Tube Evaporator  
 D. Vertical Tube Evaporator

21. 18. Salting, Scaling and Fouling are not possible in \_\_\_\_\_ evaporator. \*

*Mark only one oval.*

- A. Climbing Film Evaporator
- B. Forced Circulation Evaporator
- C. Multiple Effect Evaporator
- D. Vertical Tube Evaporator

22. 19. In multiple effect evaporator, how many maximum evaporators are attached parallelly? \*

*Mark only one oval.*

- A. 3
- B. 2
- C. 5
- D. 1

23. 20. \_\_\_\_\_ is used to concentrate insulin, liver extract and vitamins? \*

*Mark only one oval.*

- A. Falling Film Evaporator
- B. Vertical Tube Evaporator
- C. Horizontal Tube Evaporator
- D. Climbing Film Evaporator

24. 21. In which type of evaporator, the formation of vapour film is assisted by gravity? \*

*Mark only one oval.*

- A. Falling Film Evaporator  
 B. Climbing Film Evaporator  
 C. Horizontal Film Evaporator  
 D. Multiple Effect Evaporator

25. 22. Identify suitable evaporator also helps in growing of coarse crystals. \*

*Mark only one oval.*

- A. Falling Film Evaporator  
 B. Climbing Film Evaporator  
 C. Vertical Tube Evaporator  
 D. Horizontal Tube Evaporator

26. 23. When two liquids are mixed together, they are mixed in all proportions, such a mixture is called as \_\_\_\_ \*

*Mark only one oval.*

- A. Azeotropic Mixture  
 B. Ideal Mixture  
 C. Binary Mixture  
 D. All of the Above



27. 24. \_\_\_\_ is defined as the one in which there is no change in properties of components other than dilution, when they mixed to form a solution. \*

*Mark only one oval.*

- A. Azeotropic Mixture  
 B. Binary Solution  
 C. Real Solutions  
 D. Ideal Solutions

28. 25. The synonym of "Ideal Solution" is \_\_\_\_ \*

*Mark only one oval.*

- A. Perfect Solutions  
 B. Binary Mixtures  
 C. Real Solutions  
 D. All of the above

29. 26. The solutions which are showing degree of deviation from Roul't's law known as \_\_\_\_ \*

*Mark only one oval.*

- A. Perfect Solutions  
 B. Real Solutions  
 C. Ideal Solutions  
 D. Azeotropic Solutions

30. 27. The synonyms of "Molecular Distillation" is \_\_\_\_\_ \*

*Mark only one oval.*

- A. Evaporation Distillation
- B. Short Path Distillation
- C. Both A and B
- D. None of the Above

31. 28. The synonym of "Fractional Distillation" is \_\_\_\_\_ \*

*Mark only one oval.*

- A. Simple Distillation
- B. Short Path Distillation
- C. Flash Distillation
- D. Rectification

32. 29. The synonym of "Simple Distillation" is \_\_\_\_\_ \*

*Mark only one oval.*

- A. Differential Distillation
- B. Equilibrium Distillation
- C. Rectification
- D. Short Path Distillation

33. 30. The synonym of "Flash Distillation" is \_\_\_\_\_ \*

*Mark only one oval.*

- A. Simple Distillation
- B. Equilibrium Distillation
- C. Rectification
- D. Short Path Distillation

34. 31. The synonym of "Vacuum Distillation" is \_\_\_\_\_ \*

*Mark only one oval.*

- A. Simple Distillation
- B. Equilibrium Distillation
- C. Distillation under the reduced pressure
- D. Short Path Distillation

35. 32. In forced convection, the rate of heat transfer is increased by metal with: \*

*Mark only one oval.*

- A. High Thermal Conductivity
- B. Metal with high thermal conductivity and mixing of fluid
- C. High thermal conductivity, mixing of fluid, high viscous fluid and more area of heating surface
- D. High thermal conductivity, mixing of fluid flow and low viscous fluid.

36. 33. Which one of the following bodies radiates maximum amount of energy at a given temperature? \*

*Mark only one oval.*

- A. Black Body
- B. Grey Body
- C. Light Grey Body
- D. Polished Black Body

37. 34. A black body satisfies one of the following conditions. \*

Mark only one oval.

- A. Absorbs less energy than it receives
- B. Radiates all the energy it receives
- C. Absorbs energy, it receives
- D. Radiates less energy than it receives

38. 35. Which of the following has highest thermal conductivity? \*

Mark only one oval.

- A. Steel
- B. Glass
- C. Copper
- D. Rubber

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