

**Question Bank for Pharmaceutics - V**  
**Final Year B. Pharm. Semester VIII CBGS**  
**SUBJECT- PHARMACEUTICS - V**  
**MULTIPLE CHOICE QUESTIONS: (70)**

SR NO

- 1 Which of the following is a biodegradable polymer?
  - a. Polymethyl methacrylate
  - b. Acrolein
  - c. Epoxy polymer
  - d. Polyalkyl cyanocrylate
  
- 2 Which of the following is required for conversion of monomer to polymer?
  - a. Antioxidant
  - b. Initiator
  - c. Chelating agent
  - d. Oil
  
- 3 Drug diffusion from buccal DDS is studied using
  - a. Rotating bottle method
  - b. Keshary Chien cell
  - c. USP Type IV dissolution apparatus
  - d. Potentiometer
  
- 4 Folding endurance test is to be carried out on
  - a. Solution
  - b. Osmotic DDS
  - c. Buccal film
  - d. Intrauterine devices
  
- 5 Transdermal films are evaluated for drug release via
  - a. Rotating bottle method
  - b. USP Type V dissolution apparatus
  - c. USP Type IV dissolution apparatus
  - d. Vibratory flask method
  
- 6 Microemulsions are
  - a. Monophasic systems
  - b. Biphasic systems
  - c. Heterophasic systems
  - d. Disperse systems
  
- 7 Which is a polymer of natural origin
  - a. Chitosan
  - b. PMMA
  - c. Acrolein
  - d. Polyanhydrides
  
- 8 Synthetic polymer for transdermal films
  - a. Polystyrene

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- b. Hydroxypropyl cellulose  
c. Gum tragacanth  
d. Carmellose
- 9 Which formulation is thermodynamically stable?  
a. Emulsion  
b. Suspension  
c. Microemulsion  
d. Liposome
- 10 Suitable polymer for targeting drug to colon  
a. Acrolein  
b. Sodium carboxy methylcellulose  
c. Propylene glycol  
d. Eudragit L 100
- 11 Microencapsulation by phase separation is induced by  
a. Freeze drying  
b. Filtration  
c. Lyophilization  
d. Non-solvent addition
- 12 Advantage of buccal drug delivery systems over conventional oral DDS  
a. Bypass first pass metabolism  
b. Release drug slowly  
c. Easy to analyze  
d. Ease of administration
- 13 pH encountered by delivery system in colon is  
a. Less than 1.5  
b. 2-3  
c. 4-5  
d. 6-8
- 14 In interfacial polymerisation technique, monomers are  
a. Present on surface of medium  
b. Dissolved in 2 immiscible solvents  
c. Volatilised in the reaction vessel  
d. Crystallised in cosolvent
- 15 Microemulsons are classified using  
a. Hague system  
b. Winsor system  
c. Noyes system  
d. Burchard's system
- 16 Sonophoresis is induced by  
a. Gamma radiation

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- b. Ultrasound waves  
c. Infrared radiation  
d. X rays
- 17 Drug release from osmotic drug delivery systems follows  
a. Zero order kinetics  
b. First order kinetics  
c. Second order kinetics  
d. Mixed order kinetics
- 18 What is the role of wicking agent  
a. Dispersion of drug in gastrointestinal fluid  
b. Stabilization of the dosage form  
c. Aids faster dissolution of drug  
d. Targeting of drug
- 19 Rose & Nelson worked on the following delivery system  
a. Liposome  
b. Nanoparticle  
c. Osmotic  
d. Rectal
- 20 Modified Keshary Chien apparatus is used to study  
a. Diffusion  
b. Disintegration  
c. Particle size  
d. Functional groups
- 21 Polydispersibility of microemulsion can be measured by  
a. Zetasizer  
b. Abbe Refractometer  
c. Spectrophotometer  
d. Ultrasonicator
- 22 Upon reaching colon, drugs are acted upon by  
a. Saliva  
b. Hydrochloric acid  
c. Reductases  
d. Bile salts
- 23 Drugs instilled into eye are drained via  
a. Evaporation  
b. Sweat glands  
c. Lungs  
d. Nasolacrimal system
- 24 Example of permeation enhancer for buccal delivery system  
a. Oleic acid  
b. Phenol  
c. Sodium hydroxide

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d. EDTA

25 In case of pan coating method of microencapsulation, core is in the form of  
a. Suspension  
b. Solid  
c. Emulsion  
d. liquid

26 The building(s) used for the factory shall obey the conditions laid down in the Factories Act.  
a. 1945  
b. 1948  
c. 1947  
d. 1946

27 To prevent any interaction between tank material with the product some tanks are lined with \_\_\_ as liners  
a. PVC  
b. polytetrafluoroethylene  
c. Polyester  
d. Nylon

28 Prospective validation done when there is a\_\_in the manufacturing process  
a. Consistency  
b. change  
c. uniformity  
d. similarity

29 -----is used as mucoadhesive polymer.  
a. span 80  
b. bentonite  
c. c. polysorbate  
d. Carbopol

30. Which component is a primary requirement of osmotically active drug delivery system?  
a. lubricant  
b. osmotically active salt  
c. disintegrant  
d. low density polymer

31. Topical drug delivery systems are used for treating  
a. local infections  
b. diabetes  
c. hypertension  
d. hypotension

32. Ocular inserts have following feature:  
a. blurred vision  
b. low bioavailability  
c. sticking of eyelids

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d. Increased retention

33. Approach used in colon targeted drug delivery system includes

- a. prodrug
- b. floating polymers
- c. low density polymers
- d. soluble salt

34. The steps in sequence involved in microencapsulation by coacervation are

- a. Phase separation, rigidization and deposition
- b. Deposition, rigidization and phase separation
- c. Phase separation, deposition and rigidization
- d. Rigidization, deposition, phase separation

35. Spermaceti and Glyceryl stearate are examples of ----- used as coating materials in microencapsulation are

- a. Water soluble resins
- b. Water insoluble resins
- c. Waxes
- d. Gums

36. Prospective validation is carried out during

- a. During development stage of pharmaceutical product
- b. After launch of pharmaceutical product
- c. During development and after launch of pharmaceutical product
- d. During routine production batches

37. Pilot plant studies are done before taking full scale validation batches in order to

- a. To optimize the manufacturing process conditions at plant level
- b. To confirm the suitability of equipment used for manufacturing
- c. To confirm the consistency of quality of product manufactured at plant level
- d. To optimize the manufacturing process conditions, confirm suitability of equipment, consistency of quality of products manufactured at plant level

38. The equipment used in improving the consistency of cream is

- a. Propeller mixer
- b. planetary mixer
- c. triple roller mill
- d. Anchor agitator

39. Operational qualification of equipment

- a. After installation and repair
- b. During installation
- c. After repair
- d. Before installation

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40. A new drug delivery system which is composed of phospholipids form a multilamellar concentric bilayer vesicles with aqueous media is
- Prodrugs
  - Liposomes
  - Osmotic Pumps
  - Nanoparticles
41. Non ionic surfactant vesicles related to:
- Liposomes
  - Niosomes
  - Nanoparticles
  - PEGylated Liposome
42. Which parameter indicates that suspension is stable?
- X ray diffraction
  - Zeta potential
  - UV spectroscopy
  - FTIR
43. Poor sale forecasting can have \_\_\_\_\_ effects on production operations.
- good
  - ill
  - moderate
  - enhanced
44. One of the most important and simplest tools used for inventory management is the \_\_\_\_\_ classification of inventories.
- ABC
  - CBA
  - BCA
  - BAC
45. Quality can be achieved if there is motivated, qualified, trained and \_\_\_\_\_ workforce.
- lazy
  - impatient
  - depressed
  - dedicated
46. Warehousing is that aspect of materials control that is concerned with the physical \_\_\_\_\_ of goods.
- production
  - supply
  - marketing
  - storage
47. Production process normally determines the type of \_\_\_\_\_ of the facility.
- classification
  - raw material
  - layout
  - input

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48. Process oriented plant layout is useful when the production process is organized in \_\_\_\_\_.
- a. batches
  - b. bulk
  - c. linear manner
  - d. crossover fashion
49. \_\_\_\_\_ is a vehicle used by pharmaceutical companies to inspect and evaluate a vendor's quality management system
- a. Vendor audit
  - b. Supply chain
  - c. Sales forecasting
  - d. Warehousing
50. Retailers are vendors of products to \_\_\_\_\_.
- a. managers
  - b. sales executives
  - c. cusumers
  - d. shopkeepers