Late Shri Vishnu Waman Thakur Charitable Trust`s VIVA INSTITUTE OF PHARMACY

At: Shirgaon, Veer Sawarkar Road, Virar (E), Taluka: Vasai, Dist. Palghar-401305, Maharashtra.

Final Year B.Pharm.(Sem VIII) CBCS 2019-2020

BPH_E_811_T-Novel Drug Delivery Systems

Practice Question Bank

1. A lipid bilayer structure that encloses an internal aqueous volume.

- A. Niosome
- B. Liposome
- C. Solid lipid nanoparticle
- D. Nanoparticle

2. A spherical solid lipid particle prepared from physiological lipid, dispersed in water or in aqueous surfactant solution.

- A. Solid lipid nanoparticle
- B. Liposome
- C. Niosome
- D. Nanoparticle

3. A non-ionic surfactant based multilamellar or unilamellar vesicular structure

- A. Microspheres
- B. Liposome
- C. Niosome
- D. Nanoparticle

4. This particulate system is also known as "bodies of water".

- A. Aquasome
- B. Liposome
- C. Niosome
- D. Dendrimer

5. Which of the following is a non- erodible insert?

- A. Ocusert
- B. Collagen shield
- C. NODS
- D. SODI

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6. A prominent structure for ocular absorption of drugs

- A. Conjunctiva
- B. Choroid
- C. Sclera
- D. Cornea

7. The polymer used in "Lacriset"

- A. Hydoxy ethyl cellulose
- B. Hydoxy Methyl cellulose
- C. Methyl cellulose
- D. Hydroxy propyl cellulose

8. An ocular device that has the shape of a flag

- A. Ocusert
- B. Lacrisert
- C. NODS
- D. SODI

9. Which of the following does not constitute an appendageal route?

- A. Sweat glands
- B. Hair follicle
- C. Sebaceous gland
- D. Stratum corneum

10. An advantage of Novel Drug Delivery Systems is

- A. it causes fluctuation of blood levels
- B. it cannot be target specific
- C. it increases toxicity of the drug
- D. it reduces side effects of the drug

11. Osmotic drug delivery systems

- A. have a membrane that is soluble at intestinal pH
- B. the membrane is impermeable to gi fluids
- C. the membrane is permeable to water
- D. the membrane must swell

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12. Monolithic devices

- A. have drugs with large therapeutic indices
- B. have rapid drug permeation
- C. only hydrophilic polymers are used
- D. release is through a polymer membrane

13. A Polymer used for colonic systems is

- A. carboxymethyl cellulose
- B. cellulose acetate phthalate
- C. gelatin
- D. acacia

14. Drug release from osmotic drug delivery systems depends on

- A. osmotic pressure
- B. ionic strength
- C. osmotic pressure & ionic strength
- D. osmotic pressure & environment in git

15. One method to prepare nanoparticles is

- A. pan coating
- B. filtration
- C. solubilisation
- D. precipitation

16. _____ is a dispersed matrix system

- A. nanospheres
- B. nanoparticles
- C. nanocapsules
- D. nanopolymers

17. Microspheres are prepared by coacervation using

- A. non solvent
- B. trituration
- C. pH
- D. pressure

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18. Which of the following is a natural polymer used in nanoparticles.

- A.Polycaprolactone
- B. Polylactic acid
- C. Alginate
- D. Polystyrene

19. A microcapsule has_____

- A. Drug dispersed in matrix
- B. Dug core surrounded by distinct wall
- C. Drug adsorbed on the surface
- D. Drug distributed in polymeric matrix

20. A polymeric implant that is biodegradable

- A. Prepared from silicone
- B. Prepared from Polyurethane
- C. Prepared from Polylactic acid
- D. Prepared from polyacrylate

21. Sodium taurocholate used as penetration enhancer is

- A. A Surfactant
- B. Fatty acid with surfactant property
- C. Bile salt with surfactant property
- D. Bile salt but no surfactant property

22. Which of the following characteristics is suitable for transdermal drug?

- A. Large drug dose
- B. Large molecular size
- C. Drugs with narrow therapeutic indices
- D. Drugs which are metabolized in the skin

23. Reservoir systems

- A. do not depend on area
- B. have a rate controlling membrane
- C. follow any order of kinetics
- D. are highly porous

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24. Stealth liposomes

- A. have short half-life
- B. are taken up by macrophages
- C. have very large size
- D. are sterically stabilized

25. An example of a polymer incorporated into dendrimers is

- A. propylene glycol
- B. polyethyleneimine
- C. polyurethane
- D. styrene copolymers

26. Modified balance method is used to evaluate

- A. particle size
- B. adhesive strength
- C. drug release
- D. swelling

27. Eudragit L100 is a type of

- A. cellulose polymer
- B. vinyl co-polymer
- C. methacetic acid co-polymer
- D. methacrylic acid co-polymer

28. Ocusert is an example of

- A. Feedback regulated system
- B. Activation modulated system
- C. Bio -responsive system
- D. Membrane permeation system

29. _____ is an advanced method of determining size of nano particles

- A. Atomic force microscopy
- B. Ultrasound scattering
- C. Compound microscopy
- D. Molecular microscopy

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30. Chimeric peptides have

- A. chylomicrons
- B. polymeric micelles
- C. peptidomimetic antibodies
- D. polymeric nanoparticles

31. _____ is an example of a synthetic biodegradable polymer

- A. acrolein
- B. polyethylene glycol
- C. LDPE
- D. polystyrene

32. _____is an example of a bioerodible polymer

- A. polyorthoesters
- B. polycarbonate
- C. fluorocarbon
- D.polystyrene

33. Which of the following is used as chemical cross-linking agent in preparation of nanoparticles?

- A. Glutaraldehyde
- B. 2,2, di-methyl propane
- C. Lactides and glycolides
- D. Poly (acryl) starch

34. What type of protein binding characteristics of a drug are desirable to be formulated into an ocular system?

- A. Low
- B. Medium
- C. High
- D. It has no bearing

35. The stratum corneum consists of -----layers of keratinized cells

- A. 10 to 25
- B. 0 to 10
- C. 25 to 50
- D. Above 50

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36. Which amongst this is a physicochemical factor of the drug that should be considered while formulating a controlled drug delivery system?

- A. Diffusivity
- B. Half life
- C. Side effects
- D. Absorption

37. Which of the following is an effective barrier for drug?

- A. Tight junctions
- B. Pinocytes
- C. Glucose transporters
- D. Protein carriers

38. These noninvasive techniques have been used for drug delivery to brain

- A. Nanogels
- B. Bradykinin administration
- C. Onmaya reservoir
- D. Microgel

39. OROSCT Approach is used in

- A. Colon targeting
- B. Lymphatic targeting
- C. Brain targeting
- D. Mucoadheisve delivery

40. The dissolution study of colon targeted drugs is carried by

- A. Bio Dis III apparatus
- B. Beaker Method
- C. Flow through cell
- D. USP Type I AND II Apparatus

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41. Super critical fluid technology is used to prepare:

- A. Nanoparticle
- B. Neosome
- C. Aquasomes
- D. Liposomes

42. These are a unique class of synthetic macromolecules having highly branched, three dimensional, nanoscale architecture with very low polydispersity index and high functionality

- A. Dendrimers
- B. Neosomes
- C. Auasomes
- D. Nanoparticles

43. _____ is carrier for Haemoglobin

- A. Niosome
- B. Nanoparticle
- C. Aquasomes
- D. Phytosomes

44. Following is the example of invasive brain targeting

- A. Osmogens
- B. Colloidal carriers
- C. Amino acid transporters
- D. Neosomes