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D. Pharm Exit Exam - 2024

Course Name : D. Pharm

Year : First Year

Subject Name: Pharmaceutics

Topic Name : Novel Drug Delivery System

Novel drug delivery systems

MULTIPLE CHIOCE QUESTION

- 1.is the primary aim of novel drug delivery systems?
- A) To increase drug toxicity
- B) To decrease drug stability
- C) To enhance drug targeting and efficacy
- D) To minimize drug bioavailability

Answer: C) To enhance drug targeting and efficacy

- **2.** Which of the following is NOT a characteristic of conventional drug delivery systems?
- A) Targeted delivery
- B) Rapid drug clearance
- C) Limited drug solubility
- D) Uncontrolled drug release

Answer: A) Targeted delivery

- 3. Novel drug delivery systems aim to overcome limitations associated with:
- A) High drug bioavailability
- B) Rapid drug clearance
- C) Controlled drug release
- D) Limited drug targeting

Answer: D) Limited drug targeting

- 4. What is the significance of controlled drug delivery systems?
- A) They allow for rapid drug clearance
- B) They provide uncontrolled drug release
- C) They offer precise control over drug release rates
- D) They decrease drug efficacy

Answer: C) They offer precise control over drug release rates

- 5. Which of the following is an example of a targeted drug delivery system?
- A) Conventional tablets
- B) Intravenous infusion
- C) Liposomal formulations
- D) Immediate-release capsules

Answer: C) Liposomal formulations

- **6.** What role do nanoparticles play in novel drug delivery systems?
- A) Decreasing drug stability
- B) Minimizing drug solubility
- C) Enhancing drug targeting and delivery
- D) Increasing drug toxicity

Answer: C) Enhancing drug targeting and delivery

- 7. What is the primary advantage of using liposomes in drug delivery?
- A) Decreased drug targeting
- B) Rapid drug clearance
- C) Enhanced drug stability
- D) Limited drug release

Answer: C) Enhanced drug stability

- 8. Which factor is crucial for the success of transdermal drug delivery systems?
- A) Rapid drug clearance
- B) Effective drug penetration through the skin
- C) Decreased patient compliance
- D) Limited drug stability

Answer: B) Effective drug penetration through the skin

- **9.** What distinguishes novel drug delivery systems from conventional ones?
- A) They have limited drug targeting capabilities
- B) They lack control over drug release rates
- C) They offer enhanced drug delivery and targeting
- D) They utilize outdated technology

Answer: C) They offer enhanced drug delivery and targeting

- **10.** Which of the following is NOT a challenge in the development of novel drug delivery systems?
- A) Achieving targeted drug delivery
- B) Controlling drug release rates
- C) Increasing drug bioavailability
- D) Overcoming physiological barriers

Answer: C) Increasing drug bioavailability

- 11. What is the primary goal of using nanotechnology in drug delivery?
- A) To decrease drug efficacy
- B) To limit drug targeting
- C) To enhance drug stability and targeting

D) To increase drug toxicity

Answer: C) To enhance drug stability and targeting

- **12.** Which of the following is NOT a type of stimuli-responsive drug delivery system?
- A) pH-responsive
- B) Temperature-responsive
- C) Pressure-responsive
- D) Static-responsive

Answer: D) Static-responsive

- **13.** What is the primary advantage of using polymeric micelles in drug delivery systems?
- A) Decreased drug solubility
- B) Increased drug toxicity
- C) Enhanced drug targeting
- D) Limited drug stability

Answer: C) Enhanced drug targeting

- **14.** Imaging technique is commonly used for monitoring the distribution of nanoparticles in vivo:
- A) X-ray crystallography
- B) Magnetic resonance imaging (MRI)
- C) Polymerase chain reaction (PCR)
- D) Enzyme-linked immunosorbent assay (ELISA)

Answer: B) Magnetic resonance imaging (MRI)

- **15.** Which of the following is NOT a benefit of using dendrimers in drug delivery systems?
- A) Precise control over drug release
- B) Low drug loading capacity
- C) Large particle size
- D) Increased drug stability

Answer: C) Large particle size

- 16. What is the primary challenge in developing inhalable drug delivery systems?
- A) Achieving targeted drug delivery to the lungs
- B) Minimizing drug bioavailability
- C) Decreasing patient compliance
- D) Increasing drug toxicity

Answer: A) Achieving targeted drug delivery to the lungs

- **17.** Which drug delivery system is designed to release the drug in response to specific physiological cues?
- A) Passive targeting
- B) Active targeting
- C) Stimuli-responsive
- D) Non-responsive

Answer: C) Stimuli-responsive

- **18.** What is the main advantage of using transdermal drug delivery systems?
- A) Rapid drug clearance
- B) Localized drug delivery
- C) Improved patient compliance
- D) Limited drug absorption

Answer: C) Improved patient compliance

- 19. Example of a mucoadhesive drug delivery system is:
- A) Subcutaneous injection
- B) Oral tablet
- C) Transdermal patch
- D) Nasal spray

Answer: D) Nasal spray

- 20. What is the primary challenge in developing RNA-based drug delivery systems?
- A) Limited drug stability
- B) High cost of production
- C) Difficulty in achieving targeted delivery
- D) Rapid drug clearance

Answer: C) Difficulty in achieving targeted delivery

- **21.** What is the primary mechanism of action of osmotic pumps in controlled drug delivery systems?
- A) Diffusion
- B) Osmosis
- C) Filtration
- D) Adsorption

Answer: B) Osmosis

- **22.** Which of the following is NOT a limitation of using liposomes in drug delivery systems?
- A) Limited stability

- B) Rapid clearance by the immune system
- C) Difficulty in scaling up production
- D) High cost of production

Answer: D) High cost of production

- 23. Biodegradable polymer commonly used in drug delivery systems is......
- A) Polyethylene
- B) Polystyrene
- C) Poly(lactic-co-glycolic acid) (PLGA)
- D) Polypropylene

Answer: C) Poly(lactic-co-glycolic acid) (PLGA)

- 24.is the purpose of using PEG in drug delivery systems?
- A) Increase drug toxicity
- B) Improve drug stability
- C) Decrease drug solubility
- D) Minimize drug targeting

Answer: B) Improve drug stability

- **25.** What is the primary mechanism of action of magnetic nanoparticles in targeted drug delivery systems?
- A) Diffusion
- B) Osmosis
- C) Electromagnetic attraction
- D) Chemical reaction

Answer: C) Electromagnetic attraction