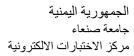


قائمة الاسئلة

صيدلانيات (1) - (2118.PHCS .PHA)- المستوى الثاني -قسم علوم صيدلانية - الكل - مركز الاختبار الالكتروني - الفترة الخامسة- درجة الامتحار د. عبدالوالي الشرحيي

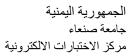
- 1) 1- Indicate which of the following statements is true. Oil-soluble surfactants:
 - 1) A) have high HLB values
 - 2) B) are hydrophilic
 - 3) + C) can be used as emulsifiers to produce water-in-oil emulsions
 - 4) D) are efficient solubilizing agents
- 2) 2- Which of the following properties are characteristic of deflocculated suspensions?
 - 1) A) close packing of the sediment to form a cake
 - 2) + B) slow sedimentation rate
 - 3) C) formation of flocs
 - 4) D) rapid clearance of supernatant
- 3) 3- Indicate which of the following molecular characteristics will be expected to increase the solubility of a simple solute in an aqueous solution:
 - 1) + A) the presence of a polar group
 - 2) B) a high molecular surface area
 - 3) C) the presence of an ionized group
 - 4) D) low melting point
- 4) 4- Increasing the surfactant concentration above the critical micellar concentra-tion will result in
 - 1) A) An increase in surface tension
 - 2) B) A decrease in surface tension
 - 3) + C) No change in surface tension
 - 4) D) All of the above
- 5) 5- Indicate which statements is FALSE:
 - 1) A) Flocculation is desirable for pharmaceutical suspensions.
 - 2) + B) Deflocculation is not desirable for pharmaceutical suspensions.
 - 3) C) Motion of dispersed particles in a suspension is induced by thermal and gravitational forces.
 - 4) D) Crystal growth of particles in a suspension is due to temperature fluctua-tion on storage and due to wider particle size distribution.
- 6) 6- How does the increase in viscosity of the suspending medium affect the rate of sedimentation when assuming the density of the particles is greater than thatof the suspending medium?
 - 1) A) Sedimentation rate will not change.
 - 2) + B) Sedimentation rate will be slower.
 - 3) C) Sedimentation rate will be faster.
 - 4) D) No particle sedimentation will take place.
- 7) 7- Which one of the following phenomena is undesirable in pharmaceutical suspensions?
 - 1) A) Slow settling of particles.
 - 2) + B) Particles agglomerate to dense cake.
 - 3) C) Particles readily redisperse upon agitation.
 - 4) D) Suspension pours readily.
- 8) 8- Which of the following parameters control the rate of sedimentation of particles in a suspension?
 - 1) A) Particle diameter
 - 2) B) Density of the particles
 - 3) C) Surface charge on the particles
 - 4) + D) all of the abave
- 9) 9- all of the following ingredients in a suspension could help in flocculating the dispersed particles except?
 - 1) A) Surfactant





- 2) B) Hydrophilic polymer
- 3) C) Electrolyte
- 4) + D) Cosolvent
- 10) 10- Drug having solubility less than 0.1mg/ml comes under which category:
 - 1) A) very soluble
 - 2) B) slightly soluble
 - 3) + C) partically insoluble
 - 4) D) freely soluble
- 11) 11- Regarding the rate of sedimentation of pharmaceutical suspension designed for administration, which of the following statement is false?
 - 1) A) the rate of sedimentation is increased as the diameter of the dispersed drug particles is increased.
 - 2) + B) the rate of sedimentation is increased as the viscosity of the continuous phase is increased.
 - 3) C) the rate of sedimentation is affected by the concentration of buffer salts.
 - 4) D) the rate of sedimentation may be increased by centrifugation.
- 12) 12- regarding the role of surfactants in pharmaceutical suspension for oral administration, which of the following statement is true ?
 - 1) + A) surfactants decrease the water contact angle of dispersed drug particle.
 - 2) B) surfactants with low HLB are used to stabilize oral suspension designed for oral administration
 - 3) C) surfactants increase the viscosity of the continuous phase of pharmaceutical suspension.
 - 4) D) non of the above
- 13) 13- Concerning pharmaceutical suspension for oral administration, which of the following statement is false?
 - 1) A) suspension for oral administration, may require the addition of sweetening agents.
 - 2) B) suspension for oral administration may require the addition of flavours.
 - 3) C) the pH of the continuous phase may affect the stability of aqueous suspension designed for oral administration .
 - 4) + D) the particle size of dispersed drug in pharmaceutical suspension designed for oral adminstartion must be < 10μm.
- 14) 14- Which of the following co-solvents are used to increase the solubility of a drug
 - 1) A) Ethanol
 - 2) B) Sorbitol
 - 3) C) Glycerin
 - 4) + D) All the above
- 15) 15- How co-solvents increase increase the solubility of poor soluble drug?
 - 1) + A) By reducing the interfacial tension between the predominant aqueous solution and hydrophobic solute
 - 2) B) By reducing the interfacial tension between solute and solvent
 - 3) C) Both
 - 4) D) None
- 16) 16- Benzalkonium chloride is categorized as
 - 1) A) Acidic preservatives
 - 2) B) Neutral preservatives
 - 3) C) Mercurial preservatives
 - 4) + D) Quaternary ammonium compounds
- 17) 17- Which of the following sugar has bitter taste
 - 1) A) Glucose
 - 2) B) Sucrose
 - 3) + C) Saccharine
 - 4) D) None
- 18) 18- In the formulation of suspensions, generally which types of drugs are selected?

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- 1) A) hydrophilic
- 2) + B) Hydrophobic
- 3) C) Both
- 4) D) None
- 19) 19- The stability of suspensions can be evaluated by
 - 1) A) Sedimentation volume
 - 2) B) Degree of flocculation
 - 3) C) Re-dispersibility
 - 4) + D) All of the above
- 20) 20- The choice of humectants is based on
 - 1) A) Rate of moisture exchange
 - 2) B) Viscosity and texture of preparation
 - 3) + C) Both
 - 4) D) None of the above
- 21) 21- Stoke,s equation is expressed as
 - 1) A) $V=2r2(d1-d2)g/9\eta$
 - 2) + B) $V = 2r2(d1-d2)g//18\eta$
 - 3) C) Both
 - 4) D) None of the above
- 22. They are intended for massage into the unbroken skin and can contain such ingredients as methy salicylate or camphor as counterirritants
 - 1) A) Colloidions
 - 2) B) Elixir
 - 3) + C) Liniments
 - 4) D) Spirits
- 23) 23- Sedimentation in suspension can be decreased by
 - 1) A) Increase particle size
 - 2) B) increased viscosity
 - 3) C) Decrease particle size
 - 4) + D) B and C are true
- 24) 24- In deflocculated suspension
 - 1) A) Sediment more rapidly
 - 2) B) Easy to re-disperse by shaking
 - 3) C) Supernatant appears clear
 - 4) + D) None of the abave
- 25) 25- Which of the following is considerd non-aqueous pharmaceutical solution?
 - 1) A) Gargle
 - 2) B) Mouthwashes
 - 3) + C) Elixer
 - 4) D) Enema
- 26) 26- which of the following statement about glycerin is False?
 - 1) A) It is used as cosolvent
 - 2) B) It is used as thickening agent (increase viscosity)
 - 3) + C) Less than 30% used as preservatives
 - 4) D) It is miscible with water
- 27) 27- Syrups are
 - 1) A) Sour and more viscous than elixirs
 - 2) B) Sour and thinner than elixiers
 - 3) + C) Sweeter and more viscous than elixrs

و/ 3 الصفحة



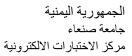
- 4) D) Sweeter and thinner than elixirs
- 28) 28- An emulsion is always between
 - 1) A) two solids
 - 2) B) A solid and liquid
 - 3) C) two gases
 - 4) + D) two liquids
- 29) 29- Medically used emulsions for intravenous administration are usually....... Type:
 - 1) A) W/O
 - 2) B) W/O/W
 - + C) O/W/O
 - 4) D) None of the above
- 30) 30- Which of the following statement is False?
 - 1) A) In an O/W emulsion, water is the external phase
 - 2) B) In W/O emulsion, water is the internal phase
 - 3) + C) In an W/O emulsion, oil is the internal phase
 - 4) D) None of the above is true
- 31) 31- which of the following formulation components antimicrobial preservatives?
 - 1) A) Propylparaben
 - 2) B) Sod. Benzoate
 - 3) C) Methyl paraben
 - 4) + D) All of the above
- 32) 32- Indicate which statement is False?
 - 1) A) Flocculation is desirable for pharmaceutical suspensions
 - 2) B) Viscosity of the suspension affects the settling of the particales
 - 3) C) Motion of the dispersion particles in a suspension is induced by gravitational forced
 - 4) + D) Non of the above
- 33) 33- Regarding the stability in pharmaceutical solution, which of the following statement is true?
 - 1) A) Microbial growth
 - 2) B) Precipitation
 - 3) C) Gas formation
 - 4) + D) All of the above
- 34) 34- Regarding to the isotonicity modifiers, which of the following widely used?
 - 1) A) Ethanol
 - 2) B) Sorbitol
 - 3) + C) Sod. Chloride
 - 4) D) Glycerol
- 35) 35- Regarding to the preservatives in pharmaceutical solution, which of the following concentration is true?
 - 1) A) Sorbic acid 10%
 - 2) + B) Propylene glycol 25%
 - 3) C) Ethanol 5%
 - 4) D) Parabens 2%
- 36) 36- Which of the following polyols used as humectants in creams
 - 1) A) Glycerine
 - 2) B) propylene glycol
 - 3) C) Sorbitol 70%
 - 4) + D) All of the above
- 37. Regarding to the water for injection, which of the following statement is False?
 - 1) A) Purified water USP +USP pyrogen test
 - 2) + B) Non-volatile solids less than 10mg/100ml

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- 3) C) Contain no additives
- 4) D) Non of the above
- 38) 38- Regarding to sterile water for irrigation, which of the following statement is False?
 - 1) A) water for injection USP + USP sterility test
 - 2) + B) Packaged in single dose
 - 3) C) Contain no additives
 - 4) C) Non of the above
- 39) 39 Regarding to bacteriostatic water for injection, Which of the following statement is False?
 - 1) A) water for injection USP + USP sterility test
 - 2) B) Contain one or more antimicrobial agents
 - 3) C) Packaged in single dose not greater than 30 ml
 - 4) + D) Non of the above
- 40) 40- Regarding to protect the aromatic water deterioration, Which of the following statement is True?
 - 1) A) protect from light
 - 2) B) should be made in small quantities
 - 3) C) protect from excessive heat
 - 4) + D) All of the above
- 41) 41- All of the following methods in preparation of solutions are true, Except?
 - 1) A) Extraction
 - 2) + B) Tritutation
 - 3) C) simple solution
 - 4) D) Chemical reaction
- 42) 42- All of the following humectants in mouthwashes are used, Except?
 - 1) A) Sorbitol 15%
 - 2) + B) Alcohols 10%
 - 3) C) Glycerin 7%
 - 4) D) Non of the above
- 43) 43- Colloid is disperse system (dispersed phase in dispersion phase) when the particles are in the range
 - 1) A) < 0.001 nm
 - (2) (B) < 0.01
 - 3) C < 0. 1nm
 - 4) + D) Non of the above
- 44) 44- Colloids have net surface electrical charge depend on.........
 - 1) A) Absorbed light
 - 2) B) Brownian motion
 - 3) + C) pH of the system
 - 4) D) All of the above
- 45) 45- Regarding to the methods of preparation of hydrophobic colloids, which of the following statement is False?
 - 1) A) Supersaturated solution
 - 2) B) Peptization
 - 3) C) Irradation
 - 4) + D) Non of the above
- 46) 46- Motion of the particles in dispersion medium depend on
 - 1) A) gravitationally
 - 2) B) Thermal induced
 - 3) C) Viscosity
 - 4) + D) All of the above
- 47) 47- Brownian motion is kinetic properties depend on, Except?

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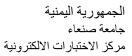
- 1) + A) Concentration of particles
- 2) B) Viscosity
- 3) C) Particles size
- 4) D) Temperature
- 48) 48- Regarding to the kinetic properties of colloids, which of the following statement is False?
 - 1) A) Diffusion
 - 2) B) Sedimentation
 - 3) C) Tyndall Effect
 - 4) + D) Ion adsorption
- 49) 49- Regarding to the diffusion in kinetic properties of colloids, which of the following statement is False?
 - 1) A) Movement of solute from high concentration to lower concentration
 - 2) B) Movement of solvent from high concentration to low concentration
 - 3) + C) Movement of solvent from lower concentration to high concentration
 - 4) D) Non of the above
- 50) 50- Regarding to the osmosis in kinetic properties of colloids, which of the following statement is true?
 - 1) A) Movement of solute from high concentration to lower concentration
 - 2) B) Movement of solvent from high concentration to low concentration
 - 3) + C) Movement of solvent from lower concentration to high concentration
 - 4) D) Non of the above
- 51) 51- Regarding to the electrical properties of colloids, which of the following statement is False?
 - 1) A) Zetapotential
 - 2) B) ion dissolution
 - 3) + C) Light scattering
 - 4) D) Ion adsorption
- 52) 52- Regarding to zetapotential of colloids, which of the following statement is True?
 - 1) A) If increase pH of colloid, the e particles of suspension have more positive charge
 - 2) B) If decrease pH of colloid, the particles of suspension have more negative charge
 - 3) + C) If more acid is added to colloid, the particles of suspension have more positive charge
- 4) D) If more alkali is added to colloid, the particles of suspension have more positive charge
 53- In preparation of suspension, minimum amount of wetting agents must be used to avoid all of the following, Except?
 - 1) A) Bad odour
 - 2) B) soapy bad taste
 - 3) C) foaming
 - 4) + D) Non of the above
- 54) 54- Syrup consists of sucrose in concentration:
 - 1) A) 76.6%
 - 2) B) 76.7%
 - 3) C) 67.6%
 - 4) + D) Non of the above
- 55) 55- Crystallization of sucrose is due to:
 - 1) A) Low concentration
 - 2) + B) Saturation
 - 3) C) Supersatuation
 - 4) D) Unsaturation
- 56) 56- according to specific gravity 100ml of syrup is equal:
 - 1) A) 180 g
 - 2) B) 130 g
 - 3) C) 130.1g

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- 4) + D) 131.1g
- 57) 57-When we used dextrose substitute for sucrose, added glycerin as preservative in concentration:
 - 1) A) 70%
 - 2) + B) 30% 45%
 - 3) C) 0.6%
 - 4) D) non of the above
- 58) 58-In sorbitol solution, which of the following concentration to act as preservative is appropriate:
 - 1) A) 85%
 - 2) B) 70%
 - 3) C) 60%
 - 4) + D) Non of the above
- 59) 59 -In glycerites non aqueous should be contain weight of glycerin:
 - 1) A) more than 50%
 - 2) B) less than 50%
 - 3) + C) not less than 50%
 - 4) D) all of the above
- 60) 60- chloroform spirit is used in elixir as:
 - 1) + A) Vehicle
 - 2) B) Colouring agent
 - 3) C) Preservative
 - 4) D) Flavouring agent
- 61) 61-Solutions are which type of liquids:
 - 1) A) Bi-phasic
 - 2) + B) Monophasic
 - 3) C) Suspension
 - 4) D) Non of the above
- 62) 62- Regarding the use of antioxidants in pharmaceutical solutions for oral administration, which of the following statements are true?
 - 1) A) Antioxidants are required in all solution formulations.
 - 2) + B) Antioxidants reduce the rate of oxidation of the therapeutic agent.
 - 3) C) The efficacy of antioxidants may be improved in the presence of ethylenediaminetetraacetic acid (EDTA).
 - 4) D) Non of the above
- 63) 63- Elixir contain
 - 1) A) 40% glycerol
 - 2) + B) 5-40% alcohol
 - 3) C) 66.7% sucrose
 - 4) D) None of the above
- 64) 64-A solution that has the same salts and sugar concentration as cells and blood:
 - 1) + A) Isotonicity
 - 2) B) Buffer solution
 - 3) C) Viscosity
 - 4) D) A+B
- 65) 65 -Group of preservative ingredients are prepared from hydroxybenzoic acid:
 - 1) A) Benzoic acid
 - 2) B) Benzalkonium chloride
 - 3) C) Propylene glycol
 - 4) + D) Non of the above
- 66) 66- The method of purification colloidal is:

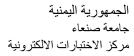
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- 1) A) Filtration
- 2) B) Peptization
- 3) + C) Dialysis
- 4) B) A & C
- 67) 67-Association colloids are represented by:
 - 1) + A) Surfactant
 - 2) B) Acacia
 - 3) C) Gel
 - 4) D) Methylcellulose
- 68) 68-A..... is a mixture in which one substance of microscopically dispersed insoluble particles is suspended through another substance:
 - 1) A) solution
 - 2) B) Colloid
 - 3) C) Emulsion
 - 4) + D) None of above
- 69) 69- Which of the following is considerd non-aqueous pharmaceutical solution?
 - 1) A) Gargle
 - 2) B) Mouthwashes
 - 3) + C) Elixer
 - 4) D) Enema
- 70) 70- A suspension is NOT a suitable dosage form for
 - 1) A) intra-articular injections
 - 2) B) intradermal injections
 - 3) C) intramuscular injections
 - 4) + D) intravenous injections
- 71) 71- A synthetic sweetening agent which is approximately 200 times sweeter than sucrose & has no taste is
 - 1) A) Saccharin
 - 2) + B) Aspartame
 - 3) C) cyclamate
 - 4) D) Sorbitol
- 72) 72- Regarding to deteriorate of the aromatic water, Which of the following statement is False?
 - 1) A) Mould growth
 - 2) B) Volatilization
 - 3) C) Decomposition
 - 4) + D) Non of the above
- 73) 73- Coagulation is
 - 1) A) Aggregated particle less dense than the medium and irreversible
 - 2) B) Aggregated particle more dense than the medium and reversible
 - 3) + C) If aggregated change to much denser form and irreversible
 - 4) D) Non of the above
- 74) 74- In physical properties of suspension, repulsive force between particles and medium due to electrical potential from.....
 - 1) A) Different in D.E.C. between the two phases
 - 2) B) Ionization
 - 3) B) Adsorption of ions
 - 4) + D) All of the above
- 75) 75- Concerning nasal solution, which statements is /are False
 - 1) A) It should be isotonic
 - 2) + B) Sterile

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- 3) C) Aqueous
- 4) D) Slightly buffered to maintain a PH of 5.5 to 6.5