

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Physical Pharmaceutics II

Course Code - BP403T

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Answer all the questions. Each question carry one mark.

9. 1. Which one of the following dispersions does not have liquid continuous phase?

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- Nanosuspension
- Microemulsion
- Gel
- Foam

10. 2. How might solid sodium carbonate be obtained from sodium carbonate solution?

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- Centrifugation
- Filtration
- Evaporation
- It cannot be extracted

11. 3. Which one of the following systems has the smallest sized domains in its dispersed phase?

Mark only one oval.

- Nano emulsion
- Coarse emulsion
- Coarse suspension
- Micro emulsion

12. 4. The scattering of light by coarse and colloidal dispersed systems is known as?

Mark only one oval.

- Contrast matching
- DLVO theory
- Tyndall effect
- Creaming

13. 5. EDTA is an example of one of the following ligand type:

Mark only one oval.

- Bidentate
- Tetradentate
- Unidentate
- Hexadentate

14. 6. Which chemical aids in the clumping together of colloidal particles?

Mark only one oval.

- Ion
- Coagulant
- Solvent
- Dispersed phase

15. 7. A soil colloid is a material that

Mark only one oval.

- Is predominately primary minerals
- has a surface charge that is generally positive
- has a size of 1 μm or smaller
- often passes in near earth orbits

16. 8. In solutions particles are

Mark only one oval.

- invisible
- visible by naked eye
- visible by ordinary microscope
- visible by electron microscope

17. 9. Particle size in suspension is

Mark only one oval.

- less than 10^3 nm
- 10^2 nm
- greater than 10^3 nm
- 10 nm

18. 10. Colloids can:

Mark only one oval.

- scatter light
- not scatter light
- absorb heat
- evolve heat

19. 11. Each mixture below has particles dispersed in water. Which list has the particles increasing in size?

Mark only one oval.

- colloid, solution, suspension
- suspension, colloid, solution
- solution, suspension, colloid
- solution, colloid, suspension

20. 12. Which of these terms is not used to describe a solid which remains behind during a separation process?

Mark only one oval.

- Gangue
- Residue
- Sediment
- Filtrate

21. 13. Which of the following separations cannot be carried out using a centrifuge?
The separation of ...

Mark only one oval.

- salt from sea water
- water from wet clothes
- cream from milk
- red blood cells from plasma

22. 14. A separation technique which involves charging particles and then attracting them to oppositely charged metal plates is called ____ separation.

Mark only one oval.

- absorption
- electrostatic
- magnetic
- gravity

23. 15. The principle method for measuring viscosity is;

Mark only one oval.

- Capillary viscometer
- Concentric cylinder viscometer
- Falling or rolling sphere viscometer
- All of these

24. 16. Materials whose consistency depends on the duration of shear as well as on the rate of shear, exhibit;

Mark only one oval.

- Rheopexy
- Thixotropy
- Viscoelasticity
- Plasticity

25. 17. Fluids that do not obey Newton's law are described as;

Mark only one oval.

- Time dependent non-Newtonian fluids
- Time independent non-Newtonian fluids
- Newtonian fluids
- Both a & b

26. 18. Elastic deformation is described by;

Mark only one oval.

- Hook's law
- Newton's law
- Empirical power law
- Stock's law

27. 19. The science of deformation and flow of matter is called _____

Mark only one oval.

- Welding
- Bending
- Tapping
- Rheology

28. 20. The time required to reduce stress in the material by flow is called _____

Mark only one oval.

- Peak time
- Relaxation time
- Stress time
- No time

29. 21. Which fluids are having a constant viscosity dependent on temperature but independent of the applied shear rate?

Mark only one oval.

- Non-Newtonian
- Newtonian
- Dry
- Wet

30. 22. 1 Pa.S is equal to _____ Poise?

Mark only one oval.

- 10 to the power 10
- 10
- 10 to the power 2
- 10 to the power 3

31. 23. For non-Newtonian fluids, apparent viscosity is a function of _____

Mark only one oval.

- Shear rate
- Flow rate
- Viscous rate
- Specific rate

32. 24. Stokes is used for _____?

Mark only one oval.

- Apparent viscosity
- Dynamic viscosity
- Shear viscosity
- Kinematic viscosity

33. 25. Fluidity is a term associated with Newtonian fluid. An equivalent term in plastic flow fluid is:

Mark only one oval.

- Apparent viscosity
- Flexibility
- Mobility
- Plastic viscosity

34. 26. A type of flow in which viscosity increases when the substance agitated is:

Mark only one oval.

- Plastic
- Pseudoplastic
- Dilatant
- Thixotropy

35. 27. The greater the thixotropy, the..... is physical stability of suspension

Mark only one oval.

- Lower
- Higher
- Equal
- No change

36. 28. In plastic system, below yield value, the apparent viscosity is:

Mark only one oval.

- Lower
- Higher
- Equal
- Infinite

37. 29. Relative viscosity can be determined by:

Mark only one oval.

- Mac Michael viscometer
- Stormer viscometer
- Ostwald viscometer
- All of these

38. 30. Dilatent material are often termed as system

Mark only one oval.

- Shear thinning
- Shear thickening
- Shearing
- None of these

39. 31. Ostwald viscometer is used to describe the viscosity of liquid

Mark only one oval.

- Dilatent
- Newtonian
- Non newtonian
- None of these

40. 32. Two solutions are said to be isotonic if they exert same.....

Mark only one oval.

- Viscosity
- Surface tension
- Osmotic pressure
- None of these

41. 33. Heckel plot represents the following relationship:

Mark only one oval.

- Apparent density vs compression pressure
- Apparent mass vs compression pressure
- Apparent density vs compression force
- Apparent mass vs compression force

42. 34. For an ideal suspension the sedimentation value should be

Mark only one oval.

- Equal to one
- Less than one
- More than one
- Zero

43. 35. An “emulsion within emulsion” is designated as:

Mark only one oval.

- O/W/W
- W/O/W
- W/O/O/W
- W/O/O

44. 36. Tween 80 means

Mark only one oval.

- Polyoxyethylene sorbitan monolurate
- Polyoxyethylene sorbitan monooleate
- Sorbitan monoolate
- Sorbitan monosetate

45. 37. Anti foaming agent have HLB of

Mark only one oval.

- 6-9
- 1-3
- 15-18
- None of these

46. 38. Which of the following is not used as a suspending agent ?

Mark only one oval.

- Acacia
- Tragacanth
- Methyl cellulose
- Soluble starch

47. 39. Which of the following formulation will show plastic flow?

Mark only one oval.

- Solution
- Gellies
- Lotions
- Concentrated solid suspension

48. 40. As per I.P room temperature means

Mark only one oval.

- 10 to 15°C
- 15 to 20°C
- 15 to 25°C
- 37°C

49. 41. What is the percentage strength of a 4 in 10,000 solution?

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0.40%

0.04%

0.004%

4%

50. 42. Hygroscopic powders

Mark only one oval.

Liberate water

Absorb moisture

both (a) and (b)

None of these

51. 43. 1 minim is equal to

Mark only one oval.

0.06 ml

0.6 ml

6.0 ml

0.006 ml

52. 44. 'Shake well before use' is to be mentioned on the label of

Mark only one oval.

- Mouth washes
- Suspension
- Elixirs
- Tablet triturate

53. 45. Pyrogen is :

Mark only one oval.

- Metabolic product of microorganism
- Antigen
- Metabolic bi- product of microorganism
- None of these

54. 46. Which one of these substances is suspending agent in calamine lotion

Mark only one oval.

- ZnO
- Bentonite
- Sodium citrate
- Glycerol

55. 47. Flocculated suspension follows

Mark only one oval.

- Plastic flow
- Pseudoplastic flow
- Dialent flow
- Newtonian flow

56. 48. Emulsion have a shelf life

Mark only one oval.

- Short
- No
- Large
- None of these

57. 49. Microemulsions contain globules of the size about.....

Mark only one oval.

- 10 micro meter
- 1 micro meter
- 0.1 micrometer
- 0.01 micrometer

58. 50. A mixture of span 20 and tween 20 forms..... type of emulsion

Mark only one oval.

- W/O
- O/W
- Milky
- Hard

59. 51. Creaming in emulsion can be controlled by regulating

Mark only one oval.

- Density of dispersed phase
- Density of dispersion medium
- Globule size
- Volume of dispersion medium

60. 52. On commercial scale, emulsions are prepared by

Mark only one oval.

- Freezing
- Homogenization
- Centrifugation
- Dialysis

61. 53. The HLB system is used classify

Mark only one oval.

- Flavours
- Colors
- Surfactants
- Perfumes

62. 54. Brownian movement of particle sedimentation

Mark only one oval.

- Assist
- Promote
- Prevent
- Increase

63. 55. Suspension of hydrophobic drug formulated with

Mark only one oval.

- Emulsifying agents
- Wetting agents
- Suspending agents
- All of these

64. 56. Pycnometer is used to determine

Mark only one oval.

- Density
- Refractive index
- Angle of repose
- Porosity

65. 57. Carr's compressibility index gives an idea about

Mark only one oval.

- Flow property of powders
- Cohesiveness of powder
- Both Flow property of powders and Cohesiveness of powder
- None

66. 58. Stalagmometer is used to determine

Mark only one oval.

- Bulk density
- Surface tension
- Porosity
- Refractive index

67. 59. Coulter counter does not give information regarding the :

Mark only one oval.

- Particle shape
- Particle volume
- Particle size
- a and b

68. 60. Porosity of a porous powder can be defined as :

Mark only one oval.

- Void volume/Bulk volume
- Bulk volume / Void volume
- True volume/Bulk volume
- Bulk volume / True volume

69. 61. Following is not the method for determining the surface area of particles

Mark only one oval.

- Adsorption method
- Mercury displacement method
- BET method
- Air permeability method

70. 62. Which of the following apparatus is used to determine the particle size by gravity sedimentation method?

Mark only one oval.

- Anderson pipette
- Pycnometer
- Coulter counter
- Hempel burette

71. 63. The type of particle diameter obtained by microscopic method of evaluation is:

Mark only one oval.

- Projected diameter
- Surface volume diameter
- Stoke's diameter
- Anti-Stoke's diameter

72. 64. Unit of kinematic viscosity is :

Mark only one oval.

- Stoke
- dyne/cm
- Poise
- gm-cm/sec

73. 65. Gel to Sol transformation system is also known as :

Mark only one oval.

- Shear thickening system
- Shear thinning system
- Plastic deformation
- None of these

74. 66. Pseudoplastic flow is exhibited by :

Mark only one oval.

- Mucilage and gums
- Lotions
- Paste
- Emulsion

75. 67. Which form of drug shows higher solubility?

Mark only one oval.

- Stable
- Metastable
- Unstable
- All of these

76. 68. Particle particle interaction is studied using

Mark only one oval.

- Nernst potential
- Zeta potential
- Surface potential
- Log potential

77. 69. Excellent flow is observed when angle of repose is

Mark only one oval.

- 41-45 degrees
- 56-65 degrees
- more than 66 degrees
- 25-30 degrees

78. 70. Dielectric constant of water at 25°C is_____.

Mark only one oval.

- 15
- 78.5
- 87.5
- 55

79. 71. The biological half-life of a drug following first order kinetics is represented by-

Mark only one oval.

- 1/k
- log k
- 0.693/k
- 2.303/k

80. 72. Drug degradation from a suspension follow _____.

Mark only one oval.

- First order reaction
- Pseudo zero order reaction
- Second order reaction
- Zero order reaction

81. 73. The application of Noyes-Whitney equation is to describe

Mark only one oval.

- First order kinetics
- Zero order kinetics
- Mixed order kinetics
- Dissolution rate

82. 74. Which one of the following is not a characteristic of a zero-order drug decomposition reaction?

Mark only one oval.

- The rate of reaction is constant
- The rate of reaction is independent of the concentration of any of the reactants
- The half-life of the drug decomposition is directly proportional to the initial concentration of API.
- The units of the rate constant (k) are time⁻¹

83. 75. Select the equation that gives the rate of drug dissolution from a tablet

Mark only one oval.

- Fick's law
- Henderson-Hasselbatch equation
- Noyes-Whitney equation
- Michelis Menton equation

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