

# Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Physical Pharmaceutics II

Course Code - BP403T

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Answer all the questions. Each question carry one mark.

9. 1.How might solid sodium carbonate be obtained from sodium carbonate solution? \*

*Mark only one oval.*

- Centrifugation
- Filtration
- Evaporation
- It cannot be extracted

10. 2.Which one of the following systems has the smallest sized domains in its dispersed phase? \*

*Mark only one oval.*

- Nanoemulsion
- Coarse emulsion
- Coarse suspension
- Microemulsion

11. 3.The metal alloy belongs to what type of colloid?

*Mark only one oval.*

- Sol
- Foam
- Gel
- Emulsion

12. 4.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  $\mu\text{m}$  or smaller
- often passes in near earth orbits

13. 5.Colloids can: \*

*Mark only one oval.*

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

14. 6.Which of the following would NOT be described as a colloid? \*

*Mark only one oval.*

- Saltwater
- Smoke
- Fog
- Foam

15. 7.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

16. 8.The ratio of relaxation time of a material to the time scale of a deformation is called; \*

*Mark only one oval.*

- Reynolds number
- Weissenberg number
- Deborah number
- Mass number

17. 9.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

18. 10.Stress strain relationship for a Newtonian fluid is \_\_\_\_\_ \*

*Mark only one oval.*

- Hyperbolic
- Parabolic
- Linear
- Inverse type

19. 11.Stokes is used for \_\_\_\_\_ \*

*Mark only one oval.*

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

20. 12. The greater the thixotropy, the..... is the physical stability of suspension \*

*Mark only one oval.*

- Lower
- Higher
- Equal
- No change

21. 13. Non-Newtonian flow can be described by using: \*

*Mark only one oval.*

- Shear viscosity
- True viscosity
- Apparent viscosity
- None of the above

22. 14. Relative viscosity can be determined by: \*

*Mark only one oval.*

- Option 1 Mac Michael viscometer
- Stormer viscometer
- Ostwald viscometer
- All of the above



23. 15.The modulus in Hook's law is called? \*

*Mark only one oval.*

- Storage modulus
- Bulk modulus
- Loss modulus
- Young's modulus

24. 16.Tween 80 means \*

*Mark only one oval.*

- Polyoxyethylene sorbitan monolurate
- Polyoxyethylene sorbitan monooleate
- Sorbitan monoolate
- Sorbitan monosetarate

25. 17.Anti foaming agent have HLB of \*

*Mark only one oval.*

- 6-9
- 1-3
- 15-18
- None of the above

26. 18. Creep test is used to measure the viscoelastic properties of : \*

*Mark only one oval.*

- Ointment
- Suspension
- Emulsion
- Lotion

27. 19. What is the percentage strength of a 4 in 10,000 solution? \*

*Mark only one oval.*

- 0.40%
- 0.04%
- 0.004%
- 4%

28. 20. Dilatant flow is also known as: \*

*Mark only one oval.*

- Shear thickening system
- Shear thinning system
- Yield value
- Rheopaxy

29. 21.1 minim is equal to \*

*Mark only one oval.*

- 0.06 ml
- 0.6 ml
- 6.0 ml
- 0.006 ml

30. 22. An example of W/O emulsion is : \*

*Mark only one oval.*

- Cold cream
- Vanishing cream
- Paste
- Emulsifying wax

31. 23. Which chemical aids in the clumping together of colloidal particles? \*

*Mark only one oval.*

- Ion
- Coagulant
- Solvent
- Dispersed phase

32. 24. When tiny particles of a substance are dispersed through medium then mixture is called \*

*Mark only one oval.*

- alloys
- amalgams
- suspension
- colloid

33. 25. 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

34. 26. Milk is a \_\_\_\_\_ fluid. \*

*Mark only one oval.*

- Viscous
- Elastic
- Visco-elastic
- Extraneous

35. 27.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

36. 28.The unit of rate of shear is \_\_\_\_\_ \*

*Mark only one oval.*

- cm.sec-1
- sec-1
- sec.cm-1
- cm.sec

37. 29.Milk is an example of ..... type of emulsion

*Mark only one oval.*

- w/o type
- o/w type
- o/w/o type
- w/o/w type

38. 30.The minimum percentage of dispersed phase in emulsion is generally : \*

*Mark only one oval.*

30

50

60

40

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