

B.Pharm. CBCS Pattern Semester-IV
BP 403T - Physical Pharmaceutics -II

P. Pages : 3

Time : Three Hours



GUG/W/23/11987

Max. Marks : 75

- Notes : 1. All questions are compulsory.
2. Illustrate your answers wherever necessary with the help of neat sketches.

1. Multiple choice questions.

20

- i) ----- governs that the higher the valency of the ions, the greater is its precipitating power.
a) Schule-hardy rule b) Gold number
c) Newton's law d) First law of thermodynamics
- ii) Kinematic viscosity is the ratio of dynamic viscosity to the
a) Density of the fluid b) Plastic viscosity
c) Volume of liquid to flow d) Specific gravity of fluid
- iii) 1m. Pa.S=.....cp
a) 100 b) 1000
c) 10 d) 1
- iv) The unit of strain is
a) Nm b) Nm^{-2}
c) Ns d) Dimensionless
- v) The size of dispersed particles in coarse dispersion ranges from
a) $1\mu m$ to $100\mu m$ b) 1 nm to 100 nm
c) 1 mm to 100 cc d) less than $1\mu m$
- vi) In flocculated suspension, the rate of sedimentation is
a) Low b) More
c) Zero d) 50%
- vii) The greater the thixotropy, the ----- is the physical stability of suspension?
a) Higher b) Equal
c) Lower d) No change
- viii) Brownian movement of particles ----- Sedimentation?
a) Prevent b) Assist
c) Enhance d) No effect
- ix) When an emulsion is exposed to ultraviolet radiations. If the continuous fluorescence is observed under microscope, then it is ----- type emulsion.
a) w/o b) o/w
c) micro-emulsion d) nano emulsion
- x) Dilute emulsion exhibits ----- flow.
a) Newtonian b) Non Newtonian
c) Plastics d) Both b and c

3. Solve **any seven**.

5x7
=35

- a) Explain different climatic zones.
- b) Define half-life in a first order. Explain the concept of half-life in a first order.
- c) What is difference between upward and downward creaming?
- d) Explain different theories of emulsification.
- e) Explain the concept of settling of suspension.
- f) Write detailed note on types of deformation.
- g) Describe principle and working of cone and plate viscometer.
- h) Describe any two methods for the purification of colloids.
- i) Write detailed note on specific acid base catalysis.
