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Total No. of Questions: 13

B.Pharma (2017 Batch) (Sem.-4)
PHYSICAL PHARMACEUTICS-II

Subject Code : BP-403T M.Code : 75845

Time: 3 Hrs. Max. Marks: 75

### INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

# SECTION-A

## Q1. Answer briefly:

- Define pseudo-zero order reaction. Give one example.
- 2. Define the term 'Porosity'.
- Explain the term 'Degree of Flocculation'.
- List the various kinetic properties of Colloids.
- What do you understand by the term 'Angle of Repose'. Give its one application.
- Differentiate between Plastic and Pseudoplastic flow.
- What are the colloidal systems? Give its one application.
- 8. What are the various methods for determining Particle size?
- Give two differences between Flocculated and Deflocculated Suspensions.
- Enlist the various factors affecting the decomposition of drugs.

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### SECTION-B

- Q2. What do you understand by 'Thixotropy and Negative Thixotropy'? Explain the various methods for the determination of Thixotropy.
- Q3. Explain the concept of DLVO theory along with the energy curves. How is this theory applied in stabilizing the colloidal dispersions?
- Discuss in detail the various signs of Instability of Emulsions.

### SECTION-C

- Q5. Define different types of densities and explain the differences between them.
- Q6. What are Association Colloids? Mention the mechanism of micelle formation with one suitable example.
- Q7. Briefly explain the air permeability method for determination of surface area of powders.
- Q8. Give the working and principle of Cup and Bob Viscometer with the help of labelled diagram.
- Q9. Derive an equation to show that in a first order reaction half life is independent of the concentration.
- Q10. Enumerate the Optical properties of Colloids. Explain any one in brief.
- Q11. Write a note on the influence of Temperature on Drug Decomposition.
- Q12. Draw flow curves for Newtonian and Non Newtonian Systems. Plastic flow is exhibited by which type of particles?
- Q13. Classify and describe the types of emulsions with suitable examples.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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