

Code: 9R01404

B.Pharm II Year II Semester (R09) Supplementary Examinations May/June 2018

**PHYSICAL PHARMACY – II**

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 What is ideal and real solution? Discuss factors affecting its solubility. State and explain Fick's second law of diffusion.
- 2 Define and classify complexes with suitable examples along with its mechanism of formation.
- 3 Explain the concept of order of reaction along with decomposition and stabilization of medicinal agents.
- 4 Define spreading coefficient and surface active agents. Discuss various adsorption isotherms.
- 5 What is micromeritics? Explain various methods of determining particle size and its distribution.
- 6 What is thixotropy? Explain various methods of determining viscosity with its applications.
- 7 Describe solubilization and stability of colloids. Add a note on electro kinetic properties of colloids.
- 8 Explain theory, physical stability and preservation of emulsion.

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