

Code No: PHR16213

**R16**

**SET - 1**

**II B. Pharmacy I Semester Regular Examinations, Oct/Nov - 2017**

**PHYSICAL PHARMACY-II**

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
2. Answering the question in **Part-A** is Compulsory  
3. Answer any **FOUR** Questions from **Part-B**

**PART -A**

1. a) What is the influence of oxygen and light on rate of a reaction? (2M)
- b) Discuss the role of spans and tweens in designing of dosage forms. (2M)
- c) Define Micromeritics and Write its applications. (2M)
- d) Define Kinematic viscosity and Relative viscosity. (2M)
- e) Explain the phenomenon of creaming and cracking in emulsions. (2M)
- f) Write a note on Classification of Colloids. (2M)
- g) What is Contact angle & write its role in solubility of drugs? (2M)

**PART -B**

2. a) Explain the methods for estimation of order of reactions. (5M)
- b) Discuss the various factors influencing the rate of reaction. (9M)
3. a) Elaborate the methods for determination of surface tension. (7M)
- b) Give a note on electrical properties of colloids. (7M)
4. a) Give an account on methods for determination of particle Surface area. (7M)
- b) Write the principle, construction and working of Coulter-Counter apparatus. (7M)
5. a) Explain in detail about Non-Newtonian systems. (7M)
- b) Discuss about the Rotatory viscometer and give its applications. (7M)
6. a) Define Tyndall effect and write about kinetic properties of colloids. (7M)
- b) Enumerate various methods for purification of colloids. (7M)
7. a) Explain the phenomenon of settling of particles in the suspensions. (7M)
- b) Write a note on physical stability of emulsions. (7M)