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)
~~~~~~