

Roll No .....

**PY-202**

**B.Pharmacy II Semester**

Examination, December 2016

**Pharmaceutics-II**

**(Physical Pharmacy)**

*Time : Three Hours*

*Maximum Marks : 70*

*Note: Attempt any five questions. All questions carry equal marks.*

1. a) Describe the methods for determination of surface area of particles. 7  
b) Discuss the flow properties of powders in brief. 7
2. a) Discuss the factors affecting solubility of a drug. 7  
b) Explain phase diagram and three component systems. 7
3. a) Explain Newtonian and Non-Newtonian systems in brief. 7  
b) What is Rheology? Discuss its pharmaceutical applications. 7
4. a) Write the theory of sedimentation and role of zeta potential in formulation of suspensions. 8  
b) What are flocculated and deflocculated systems? 6
5. a) Discuss the optical properties of colloidal systems. 7  
b) Write methods for determination of surface tension. 7

6. a) Write brief classification and pharmaceutical applications of complexes. 8  
b) How protein binding affects the absorption of a drug molecule. 6
7. Write short notes on any three : 14  
a) Thixotropy  
b) Surface active agents  
c) Pharmaceutical buffers  
d) Stability of emulsions

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