

Roll No

PY-302 (CBCS)**B.Pharm., III Semester (Non-PCI Scheme)**

Examination, December 2017

Choice Based Credit System (CBCS)**Physical Pharmaceutics - II***Time : Three Hours**Maximum Marks : 75*

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Discuss the physical and chemical factors influencing the chemical degradation of pharmaceutical product.
2. Discuss plastic and pseudoplastic flow of fluids. Describe the various viscometers used in the determination of Newtonian flow of fluids.
3. What is HLB? Describe the HLB scale for surface active agents.
4. Discuss emulsion types and theories of emulsification. Give detail account of physical stability and preservation of emulsions.
5. What is surface free energy? Describe the methods of detecting surface tension.

[2]

6. What do you mean by Rheology? Give detail account on Newtonian's law of flow.
7. What are colloids? Discuss electrical properties and pharmaceutical applications of colloids.
8. Write short notes on any three of the following:
 - a) Thixotropy
 - b) Deformation of solids
 - c) Accelerated stability testing
 - d) Photolytic degradation and its prevention
