PY-302

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Total No. of Questions: 8] [Total]

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Roll No

PY-302

B.Pharm., III Semester

Examination, December 2016

Choice Based Credit System (CBCS) Physical Pharmaceutics - II

Time: Three Hours

Maximum Marks: 60

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) Differentiate between zero order and first order reaction kinetics.
 - Describe various methods for determination of order of reaction.
- 2. a) Discuss plastic, pseudoplastic and dilatant flow of fluids.
 - Describe various viscometers used in determination of Newtonian flow of fluids.
- a) What are colloids? Discuss electrical properties of colloids.
 - b) Discuss pharmaceutical applications of colloids.
- a) Discuss the methods for determination of surface and interfacial tension.
 - b) What is HLB scale? Discuss its importance in pharmacy.

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- a) Discuss the effect of temperature and acid-base catalysis on the chemical degradation of pharmaceutical products.
 - Discuss application of accelerated stability testing in determination of shelf life of pharmaceutical dosage forms.

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- 6. a) Discuss various theories of emulsification.
 - b) Write a note on formulation of pharmaceutical suspension.
- a) Discuss mechanical properties of solids and its importance in pharmaceutical industry.
 - b) Discuss physical stability of emulsion.
- 8. Write short notes (any three):
 - a) Thixotropy
 - b) Protective colloids
 - c) Heckel equation
 - d) Photolytic degradation and its prevention

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