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(LI 4256)

FEBRUARY 2016

Sub. Code: 4256

B.PHARM. EXAMINATION SECOND YEAR PAPER I – PHYSICAL PHARMACEUTICS

Q.P. Code: 564256

Time: Three hours Maximum: 100 Marks

I. Essay: $(2 \times 20 = 40)$

1. a) Explain objective, procedure and limitations of accelerated stability testing.

- Explain briefly on degradation and stabilization of pharmaceutical products.
- a) Explain various methods of complex analysis.
 - b) Discuss shear thickening systems with suitable examples.

II. Short notes: $(8 \times 5 = 40)$

- Discuss Sedimentation technique that used for particle size analysis.
- 2. Briefly explain the diffusion principles in biological systems.
- 3. Write short notes on different colloidal systems.
- Dilantant flow.
- Describe Cone and Plate viscomete
- Explain instabilities of emulsion
- Explain pharmaceutical applications of surfactants according to HLB values.
- 8. Brief about Factors affecting dissolution.

III. Short answers: $(10 \times 2 = 20)$

- Factors causing breaking in emulsion.
- Zeta potential.
- Noyes Whitney equation.
- Define Yield value in plastic systems.
- 5. Thixotrophy.
- Porosity.
- Define Protective colloids.
- Buffer capacity.
- Dissolution.
- 10. Stoke's law.

