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**PY-401****B.Pharmacy IV Semester**

Examination, June 2017

**Pharmaceutics - IV****Pharmaceutical Engineering - II****Time : Three Hours****Maximum Marks : 70**

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

1. Explain with neat diagram about the construction, working of ball mill. Give the factors affecting size reduction in ball mill.
2. Give the theory of sedimentation and describe the Elutriation process of size separation.
3. Describe the working and advantages of multiple effect evaporator.
4. Explain the Rayleigh's equation for batch distillation. Give its applications.
5. Explain with neat diagram about the construction, working and advantages of Spray dryer.
6. Explain with neat diagram about the construction, working and advantages of Krystal crystallizer.

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7. Explain with neat diagram about working of sigma blade mixer.

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8. Answer any four of the following:

- a) Give the classification of fine powders with definitions.
- b) What do you mean by the term Azeotrope?
- c) What are the different parts of fluidized bed dryer?
- d) Describe in short about reverse Osmosis.
- e) What is Heckel plot?
- f) Enumerate the causes of lamination in tablet formation.

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