

**PY-405****B.Pharm., IV Semester**

Examination, June 2017

**Choice Based Credit System (CBCS)****Pharmaceutical Engineering***Time : Three Hours**Maximum Marks : 60*

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

1. Describe the theories and factors influencing filtration.
2. a) Discuss the Bernoulli's theorem and its applications.  
b) Describe the mechanism and laws governing size reduction.
3. Write notes on (any two):  
a) Cyclone separator  
b) Reynolds number and its significance  
c) Silversion emulsifier
4. a) What are the factors affecting size reduction?  
b) How will you prepare purified water and water for injection (BP) by distillation?
5. Write notes on (any two):  
a) Discuss various factors affecting mixing  
b) Theories of corrosion  
c) Supercentrifuge

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6. Discuss the principle, working, applications and advantages of:  
a) Fluidized bed dryer www.rgpvonline.com  
b) Pneumatic conveyors
7. What are the various heat transfer mechanisms? Discuss in detail Fourier's law.
8. Write notes on (any two):  
a) Mechanical hazards and their safety  
b) Steam jacketed kettle  
c) Theory of crystallization

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