

Subject Code: B132101/R13

**II B. Pharmacy I Semester Supple Examinations, May – 2017**

**PHARMACEUTICAL UNIT OPERATIONS-I**

**Time: 3 hours**

**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**  
Answering the question in **Part-A** is Compulsory,  
Three Questions should be answered from **Part-B**

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**PART-A**

1. (a) Write a note on Reynold's number.
- (b) Write the principle of Belt conveyors conveyors.
- (c) Enlist the factors affecting filtration.
- (d) Write the mechanism of nucleation.
- (e) What is Psychometric chart and explain?
- (f) Write the advantages and limitations of Glass.

[3+4+4+4+4+3]

**PART-B**

2. (a) Explain the principle and working of venturi meter.
- (b) Give a neat sketch of any one fluid manometers and explain its working principle. [8+8]
3. (a) Describe the principle, construction, working and applications of Reciprocating pumps.
- (b) Write about the industrial blowers and compressors. [8+8]
4. (a) Write with a neat diagram, describe the construction and working principles of Drum Filter.
- (b) Write note on Supercentrifuge. [8+8]
5. (a) Explain Solubility curves.
- (b) Explain working principle of Swenson Walker crystallizer.
- (c) Write note on caking of crystals. [5+8+3]
6. (a) What are the wet bulb and adiabatic temperature and explain it?
- (b) Describe the working principle of Refrigerator. [6+10]
7. (a) Write a note on importance of iron and stainless steel in materials of construction.
- (b) What are the Chemical and mechanical hazards? How can they be controlled? [8+8]

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