



Code No: B2101/R10

R10**II B.Pharmacy I Semester Supplementary Examinations, Apr/May 2013
PHARMACEUTICAL ENGINEERING**

Time: 3 hours

Max Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

1. Discuss with examples the application of unit operations in pharmaceutical industry [15]
2. Compare orifice meter and Venturi meter [15]
3. (a) Describe the construction and working of piston and plunger pumps.
(b) Write notes on rotary pumps. [8+7]
4. Explain the theory of filtration in detail with the help of mathematical expressions. [15]
5. Explain in detail the theory of crystallization. [15]
6. (a) Define humidification? Write the mechanism of humidification?
(b) Draw the humidity chart and mention its uses? [8+7]
7. Define corrosion? Give the example of corrosion formation and add a note on importance of corrosion in pharmaceutical industry. [15]
8. What are the general precautions given to people for avoiding mechanical Hazards in pharma industries? Add a note on general problems and their remedies while handling machines to avoid the mechanical injuries. [15]

