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R10

## II B.Pharmacy I Semester Regular Examinations, Mar 2014 PHARMACEUTICAL ENGINEERING

Time: 3 hours Max Marks: 75

Answer any FIVE Questions All Questions carry equal marks

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- Explain the terms mole, mole fraction and mole volume [15]
  (a) What are the advantages of differential manometer over simple manometers?
  (b) Write about various types of fluid flow. [8+7]
- 3. (a) Describe the construction and working of piston and plunger pumps.
  - (b) Write notes on rotary pumps. [8+7]
- 4. (a) Write the application of Kozeny equation in filtration and discuss its limitations.
  - (b) Write the relation between Kozeny and the Poiseuille equation. [8+7]
- 5. (a) Describe how nucleation and crystal growth takes place during crystallization?
  - (b) Define polymorphism? what is the importance of polymorphism in pharmacy? [8+7]
- 6. (a) Write the approaches to dehumidification?
  - (b) Write the applications of dehumidification and humidity control? [8+7]
- 7. Describe in detail about factors influencing the selection of materials for the pharmaceutical plant construction with examples. [15]
- 8. Write in detail about the preliminary safety procedures given to the persons in fire and chemical hazards in the pharmaceutical industries. [15]

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