

Code: 9R01301

R09

B.Pharm II Year I Semester (R09) Supplementary Examinations November 2016

PHARMACEUTICAL ENGINEERING – I

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Write about gas laws.
(b) Mention the dimensionless formulae and equations.
- 2 (a) Write about Reynold's number.
(b) Mention the methods for the measurement of flow.
- 3 Describe the functions of different types of liquid pumps.
- 4 Explain the theory of filtration and factors affecting filtration using examples.
- 5 Discuss different types of crystallizer with respect to their mechanism and applications.
- 6 Draw a diagram and explain the operation of a dehumidifier. Specify the applications of humidity.
- 7 Write the properties and applications of the construction materials:
 - (a) Stainless steel.
 - (b) Glass.
- 8 (a) What are the basic safety measures to be carried out in industry to avoid hazards?
(b) Mention in detail mechanical and chemical hazards.
