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Code: 15R00301

B.Pharm II Year I Semester (R15) Supplementary Examinations June 2017 PHARMACEUTICAL ENGINEERING

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Give the Bernoulli's equation.
 - (b) What is corrosion? Mention its factors.
 - (c) What is wet bulb and adiabatic saturation temperature?
 - (d) Write the applications refrigeration and air-conditioning.
 - (e) What are the factors effecting filtration.
 - (f) Define crystallization and give the applications.
 - (g) Explain any one theory in size reduction.
 - (h) What is meant by vortex formation?
 - (i) Define automated process control system and give the examples.
 - (j) What is computer aided manufacturing?

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 Explain in detail about Pitot tube and Rotameter with neat labeled diagrams.

OR

3 Write short notes on Reciprocating pump and explain about the piston pump.

4 Explain construction, working principle and theory of air conditioning.

OR

5 Explain thermodynamic method for measuring the humidity.

UNIT – III

6 Classify crystallizers and explain the working of Swenson – walker crystallizer. Give its advantages & disadvantages.

OR

7 Define centrifugation. Classify various equipments used for centrifugation process (explain any one centrifuge).

UNIT – IV

8 Explain in detail about equipments used in mixing of immiscible liquids.

OR

9 Explain construction, working principle involved in cyclone separator with neat labeled diagram.

UNIT – V

10 What is meant by computer aided manufacturing and explain the applications.

OR

11 Explain about process variables of temperature and pressure measurement.

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