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Code No: B2201/R10

II B.Pharmacy II Semester Supplementary Examinations, Nov- 2016 PHARMACEUTICAL UNIT OPERATIONS-II

Time: 3 hours Max Marks: 75

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) State and explain Stefen-Boltzmann's law of heat radiation
 - (b) List the characteristic of heat transfer by radiation

[8+7]

- 2. Explain boiling point composition curves of mixtures of type I and type II solutions.

 [15]
- 3. (a) Distinguishing features of evaporation with other heat process with applications (b) Classification of evaporators [8+7]
- 4. Explain construction, operation in detail of Fluidized Bed Dryer along with applications [15]
- 5. Explain about construction ,working, advantages and disadvantages of Spray Dryer.

 [15]
- 6. (a) Explain about various theories of size reduction of a powders.
 - (b) Explain about construction, working and applications of Fluid Energy mill.

[7+8]

- 7. Write a note on mixing of semi solids. Classify the equipment. Mention the factors influencing the selection of equipment. Explain in detail about Triple roller mill with a neat labeled diagram. [15]
- 8. Mention the different levels of automatic process control in a pharmaceutical industry. Describe Unit operation control, Unit process control and Plant level control.

 [15]
