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II B.Pharmacy II Semester Supplementary Examinations, January 2014 PHARMACEUTICAL UNIT OPERATIONS-II

Time: 3 hours

Max Marks: 75

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

- 1. (a) Explain in detail about Double-pipe heat interchanger with neat diagram
 - (b) Differenciate log mean radius and arthemetic mean radius in conduction of heat with its applications [7+8]

2. Define distillation and classify the distillation methods with working [15]

- 3. (a) (i) Give type of evaporators with long tubes(ii) Describe and explain evaporators with forced circulation
 - (b) Classify evaporators with short tubes and describe basket type evaporator $[8{+}7]$
- 4. Explain construction, operation in detail of Fluidized Bed Dryer along with applications [15]
- 5. Classify the equipment used in solid solid mixing. Write in detail about Ribbon Blender and Fluidized Mixer. [15]
- 6. With neat labeled diagram explain about Non Rotary Ball and Bed Mill [15]
- 7. Give a detailed account on the equipment used for mixing of soluble solid with low viscosity liquid [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]
