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Code No. : **7008****FACULTY OF TECHNOLOGY****B.Pharm. II Year I Sem. (Suppi.) Examination, June 2010****PHARMACEUTICAL ENGINEERING — I**

Time: 3 Hours]

[Max. Marks: 70

*Instructions : Answer all questions.**All questions carry equal marks.*

1. a) i) Distinguish ferrous and non ferrous metals with suitable examples. 4
ii) Discuss the various types of alloys of stainless steel along with their composition, merits and demerits. 7
iii) Distinguish between steady state and unsteady state process. 3

OR

- b) i) Define conversion and discuss the factors influencing corrosion and explain the methods to combat corrosion. 8
ii) Define unit operations and unit processes with suitable examples. 6
2. a) i) What are variable head meters and variable area meters ? Describe about any one in the first category in detail. 7
ii) Derive an equation for heat flow through a cylinder. 5
iii) Define thermal conductivity. 2

OR

- b) i) What is convection ? How is it different from conduction and radiation ? 6
ii) Write brief note on heaters and heat interchangers. 3
iii) What are the functions of steam traps condensers vacuum pumps, and entrainment separators in the heat processes ? 5

(This paper contains 2 pages)

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