

Time: 3 hrs

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Code No. 1067

Max. Marks: 70

FACULTY

B. Pharmacy 2/4 I – Semester (Supplementary) Examination, Nov 2017

Subject : Pharmaceutical Enineerin

Note: Answer all questions. All questions carry equal marks.	
 1 a) Write the important properties, uses and composition of any two non ferrs metals used in pharmaceutical industry. b) Enlist the varis types of corrosion. Discuss the factors that influence the rate of corrosion. 	7 7
OR	
 c) Explain dimensional formulas and dimensionless equations with suitable examples. 	7
d) Write a note on theories of corrosion.	, 7
, ,	
2 a) Derive an equation for heat transmission thrh a circular pipe from Frier's law.	7
b) Write a note on :	-
i) Vacuum pumps ii) Orifice meter OR	7
c) Explain Stefan Boltzman law of thermal radiation.	7
d) Explain the concept of scraped surface heat exchaners.	, 7
3 a) Compare reciprocatin pumps with centrifual pump.	7
b) Write a note on	7
i) Peristaltic pump ii) Pneumatic conveyor OR	7
c) With neat sketches, describe the construction and workin of	
i) Diaphram valve ii) lobe valve	7
d) Describe the desin and workin of different types of blowers used for the	
transportation of ases.	7
4 a) Write a note on	7
i) Humidity chart ii) Wet bulb theory	1
b) What is coefficient of performance of a refrieration system? Add a note on	
refrieration load.	7
OR	7
c) What are coolin towers? Explain their desin and workin.d) Explain the importance of refrieration in pharmacy with suitable examples.	7
What is ton of refrieration?	4+3
5 a) Compare plate and frame filter press with chamber press.	7
b) Discuss the construction and workin of in rotary continus filter.	7
OR c) ive the construction, workin and uses of vertical solid bowl centrifue.	7
d) With a neat sketch describe the construction, workin and uses of rotary	1
continus filter.	7