

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.	
<ul> <li>1 a) Write the important properties, uses and composition of any two non ferrs metals used in pharmaceutical industry.</li> <li>b) Enlist the varis types of corrosion. Discuss the factors that influence the rate of corrosion.</li> </ul>	7 7
OR	
<ul> <li>c) Explain dimensional formulas and dimensionless equations with suitable examples.</li> </ul>	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 <b>OR</b>	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 <b>OR</b>	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
<ul><li>c) What are coolin towers? Explain their desin and workin.</li><li>d) Explain the importance of refrieration in pharmacy with suitable examples.</li></ul>	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
<b>OR</b> 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