

07/4/16

B.Pharm/Sem-III CRSGSKT

Pharm. Engg

Q.P. Code : 24938

(3 Hours)

[Total Marks : 70

N.B. : (1) All questions are compulsory
(2) Begin new question on a new page.

1. (a) Classify manometers and write a note on U-tube manometer. 3
(b) Discuss mass transfer in turbulent flow 3
(c) Explain any two ways of preventing caking of crystals 2
(d) Enlist factors influencing rate of evaporation 2
(e) Write a note on differential distillation 2
(f) Explain Aluminium and its alloys as material of construction. 3
2. (a) Explain with diagram the construction and working of reciprocating pumps 4
(b) Classify crystallizers. Explain the working of continuous crystallizer 4
OR
Explain with neat diagram the construction and working of circulating-Magma Crystallizer. 4
(c) Discuss dehydration of Alcohol with diagram. 3
3. (a) Classify flow meters and write a note on rotameter 4
OR
Write a note on Pitot tube 4
(b) Explain vacuum pumps as evaporator accessory. 3
(c) Discuss refrigeration equipment in details. 4
4. (a) Explain the experiment for understanding of Bernoulli's theorem 4
(b) Define different modes of heat transfer. Explain the statement of Fourier's law. 4
OR
With a neat labelled sketch explain the principle and operation of Shell and tube heat exchanger. 4
(c) Explain Mier's theory of supersaturation 3

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5. (a) Give the construction, principle and working of a centrifugal pump. 3
(b) Classify fractionating column and discuss in details plate column 4

OR

- Discuss the concept of plate efficiency and HETP 4
(c) Explain the different types of Fire extinguishers used in the Industry. 4

6. (a) Classify conveyors and write a note on screw conveyor. 3
(b) Explain with diagram forced circulation evaporator 4
(c) Explain corrosion reactions on Single Metal and between two metals. 4

OR

- Explain any two types of localised corrosion in detail. 4

X2-Con. 49-16.

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