Time: 3 Hrs

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## **FACULTY**

## B. Pharmacy 2/4 I Semester (Suppl.) Examination, April 2016

Subject : Pharmaceutical Enineerin I

Note: Answer all guestions. All guestions carry equal marks.

(a) Discuss the applications, advantaes and disadvantaes of any two ferrs metals used in pharmaceutical industry. (7) (b) Explain briefly the theories of corrosion. (7) (c) Explain the terms "Dimensional formula" and "Dimensional equations" with suitable examples. (7) (d) Compare plastics with metals as materials of plant construction. (a) Derive an equation for the overall heat transfer coefficient. Write its sinificance. (7)(b) Compare orifice meter with a venturi meter. (7)OR (c) Describe the construction, workin, advantaes and disadvantaes of a dble pipe heat exchaner with a neat d iaram. (7) (d) Write a note on varis types of condensers. (7) (a) With a neat sketch explain the construction, workin and applications of reciprocating pump. (b) Write a note on: (7) (i) Pneumatic conveyor (ii) Jet pumps (c) Compare reciprocatin pumps with centrifual pumps. (7) (d) Describe the construction, workin and uses of  $(3\frac{1}{2} \times 2)$ 

(b) Describe a refrieration system usin a compressor.

(a) Explain the air conditioner with a neat labeled diaram.

(3½ x 2)

(7)

(7)

(c) Write a note on :
(i) Coolin towers

(ii) Brine systems

(d) Describe the humidity chart. Explain how to use humidity chart.

(7)

5 (a) Explain the principle, construction and workin of chamber press.

(9) (5)

(b) Describe the theory of centrifuation.

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(c) Describe any two filters used for air filtration.

(i) diaphram valve (ii) lobe valve

(7)

(d) Suest and describe a suitable centrifue for the separation of slurry containin hih percentae of solids.

(7)

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