

Q. 8. Explain the following (any two) :

2×7

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- (a) Sieves for grading of powders
- (b) Theory of centrifugation
- (c) Freeze drying

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B Pharmacy (5th Semester)

Examination, Nov.-Dec., 2014

Branch : Pharmacy

PHARMACEUTICS - VII
(PHARMACEUTICAL ENGINEERING - II)
(NEW)

Time Allowed : Three Hours

Maximum Marks : 70

Note : Attempt any five questions. Each question carry equal marks. CSVTUonline.com

Q. 1. Define objective and significance of size reduction. What are the various factors affecting the size reduction? Give working principle, construction and uses of ball mill. 4+4+6

(2)

Q. 2. Describe the factors affecting the evaporation.

Explain the working principle, construction and

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uses of short tube evaporators. Give a note on

scale formation. **4+6+4**

Q. 3. Discuss Mier's supersaturation theory with its

limitations. Give design, working principle and

uses of krystal crystallizer. How the caking of

crystals can be prevented? **5+5+4**

Q. 4. Write notes on: **CSVTUonline.com** **7+7**

(a) Membrane filter

(b) Fluidized bed dryer

(3)

Q. 5. Describe principle, construction and application

of steam distillation. Give a brief account on

azeotropic and extractive distillation. **8+6**

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Q. 6. Write short notes on (any four) : **3½×4**

(a) Standard of powders

(b) Solubility curve

(c) Binary mixture

(d) Raoult's law

(e) Sigma blade mixture

Q. 7. Describe the construction and working of a

suitable filter for handling of high solid containing

slurries with a neat diagram. Discuss the filter

aids with examples. **CSVTUonline.com** **10+4**

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