

**AV – 2324**

**Second Semester B. Pharm. Examination**

**PHARMACEUTICAL ENGINEERING – II**

**Paper – T – 2.4**

**( USC – 35146)**

**P. Pages : 2**

**Time : Three Hours ]**

**[ Max. Marks : 60**

- Note :** (1) All question carry equal marks.  
(2) Answer any **Five** questions.  
(3) Illustrate your answer wherever necessary with the help of neat sketches.  
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Explain the crystal forms and habits. Add a note on crystal growth. Give various types of crystallizer with diagrams. 12
2. Define size reduction. Which are the factors affecting size reduction. Add a note on ball mill. 12
3. (a) Describe screen analysis with its equipments. 6  
(b) How size separation can be carried out by setting ? 6
4. (a) Give theory of drying with its uses in pharmacy. 6  
(b) Explain different types of dryers with their diagrams. 6
5. Describe wet bulb and adiabatic saturation temperatures. Give the application of humidity measurement. Add a note on refrigeration. 12

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**P.T.O.**

6. (a) Classify safety hazards in detail. 6
- (b) Explain any one conveyor with diagram. 6
7. Write short notes on (Any **Three**) :—
- (a) Types of mixing.
- (b) Nucleation mechanism.
- (c) Dehumidification.
- (d) Caking of crystals and its prevention.
- 12

