

**Q.P. Code :01268**

**[Time: Two Hours]**

**[ Marks:40]**

**Please check whether you have got the right question paper.**

- N.B:**
- 1. Question.No.1 is compulsory.**
  - 2. Attempt any three questions from remaining Four Questions.**
  - 3. Draw neat, well labelled diagrams wherever necessary.**

- Q.1. Answer the following questions : (Any Five) 10**
- Explain the term bound water and unbound water.
  - What are the factors affecting Caking of Crystals.
  - Classify evaporators.
  - Discuss the mechanism of solid-liquid Extraction.
  - Enlist the Various packing used in fractional distillation.
  - What are the various stages of fluidization.
- Q.2. a. Write in detail theory of fluidization and discusses working of fluidized bed Coater. 05**  
**b. Elaborate in detail on steam distillation. 05**
- Q.3. a. Discusses in detail various stages of crystallization. 05**  
**b. Write in detail principle, construction and working of vacuum tray dryer. 05**
- Q.4. a. Classify various liquid Extraction and discussed detail about Bonotto – extractor 05**  
**b. Explain wet scrubber for prevention of Air pollution. 05**
- Q.5. Write Short note on : (Any Two) 10**
- Soxhlet extraction
  - Electrical Hazards
  - Climbing film evaporater.