SECOND YEAR B.PHARM. EXAMINATION
PAPER IV – PHARMACEUTICAL TECHNOLOGY
Q.P. Code: 564259

Time: Three hours   **Maximum: 100 marks**

I. Essay: **(2 x 20 = 40)**

1. Explain the methods of heat transfer and give in detail heat transfer by conduction.
2. a) Write working principle, construction, advantages and disadvantages of conical disc centrifuge.

   b) Explain Meir's theory of crystallization.

II. Short notes: **(8 x 5 = 40)**

1. Write a note on filter media
2. Discuss on gate valve
3. Give a note on glass as materials of plant construction
4. Explain rotary cutter mill
5. How will you prevent dust hazards in pharmaceutical industry?
6. Explain the various laws of size reduction
7. Write in detail falling film evaporator
8. Discuss rotameter

III. Short answers: **(10 x 2 = 20)**

1. Give all types of manometers
2. Dew point
3. What is direct weighing of fluid flow?
4. Define crystals
5. Define RH
6. What are the disadvantages of plate and frame filter press?
7. Write advantages of glass as plant construction
8. Define accident records
9. Define corrosion
10. What is adiabatic cooling lines?

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