[B.PHARM 0323]   **MARCH 2023**   **Sub. Code: 4259**
(FEBRUARY 2023 EXAM SESSION)

B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
SECOND YEAR (Regulation 2009-2010)
PAPER IV – PHARMACEUTICAL TECHNOLOGY

Q.P. Code: 564259

Time: Three hours   **Answer ALL Questions**   **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the principle and working of fractional distillation apparatus with the help of phase diagram.

2. Describe the mechanism of size reduction. Write the principle, construction and working of Fluid energy mill.

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

1. Write the various filter aids with examples.
2. Explain glass as materials of plant construction.
3. Write note on theory of centrifugation.
4. Explain in brief about construction and working of falling film evaporator.
5. Explain the construction and working of venturi meter with the help of neat diagram.
6. Describe the construction and working of membrane filter.
7. Write a note on Humidity chart.
8. Explain the construction and working of simple distillation.

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

1. What is Moh's scale?
2. State kick's law.
3. Define black body.
4. What is convective mixing?
5. Define corrosion.
6. Define elutriation.
7. What is evaporation?
8. What are bound and unbound moisture?
9. Define filter aids.
10. What is radiation?

****