

4. (i) Illustrates the term supersaturation with its modes of generation.
(ii) Discuss the types of moisture in detail.

Section C

5. Discuss health and safety hazards in detail.
6. Write short notes on the following :
(i) Process design development
(ii) Plant operation
(iii) Steady state plug flow reactor.

Section D

7. Explain principle, working and applications of HPLC in detail.
8. Discuss radioimmunoassay and the term ELISA.

Roll No.

Total Pages : 02

LMDQ/M-24

7531

**PHARMACEUTICAL CHEMISTRY
SPECIAL–VI
CHEM-404**

Time : Three Hours]

[Maximum Marks : 60

Note : Attempt *Five* questions in all, selecting at least *one* question from each Section. All questions carry equal marks.

Section A

1. Describe the following terms :
(i) Fourier's law of heat flow
(ii) Filtration cycle
(iii) Vapour liquid equilibrium
(iv) Introduction of filters.
2. Write short notes on the following :
(i) Filter media
(ii) Centrifuges
(iii) Partial condensation
(iv) Plate heat exchangers.

Section B

3. Explain different types of fluid flow.