

M.Sc Semester-2 Examination

409

Pharma Science

Time : 2-30 Hours]

April-2024

[Max. Marks : 70

Q.1A	Explain in detail mechanism of size separation.	7
Q.1B	Write a note on cyclone separator.	7
	OR	
Q.1A	Explain in detail about sedimentation tank.	7
Q.1B	Enlist different methods of particle size distribution and explain any one method.	7
Q.2 A	Write a short note on filter press.	7
Q.2 B	Explain in detail about membrane filtration.	7
	OR	
Q.2 A	Write a short note on mechanism of filtration.	7
Q.2 B	Explain in details about cartridge filter.	7
Q.3 A	Write a note on multiple effect evaporator.	7
Q.3 B	Write in detail about factor influencing evaporator.	7
	OR	
Q.3 A	Explain the process of heat transfer.	7
Q.3 B	Write a note on Forced circulation Evaporator.	7
Q.4 A	Write a note on Equilibrium Moisture Content.	7
Q.4 B	Short note on Spray dryer.	7
	OR	
Q.4 A	Explain in detail theory and mechanism of drying.	7
Q.4 B	Short note on humidification and dehumidification.	7
Q.5	ANSWER THE FOLLOWING SHORT QUESTIONS (ANY 7)	14
1	Define Critical Moisture Content.	
2	Define Loss on drying.	
3	Give advantages of fluidized bed dryer.	
4	What is Raoult's law?	

(P.T.O)

N 275-2

5	What is Henry's Law?	
6	Give the general Parts of Distillator.	
7	Enlist mechanism of mixing.	
8	Give the application of mixing in Pharmaceutical Industry.	
9	Give the principle of double cone blender.	
10	Why size reduction is essential in manufacturing of pharmaceutical dosage form?	
11	What is Kick's Law?	
12	Define Size Separation.	