

M.Sc Sem.-2 Examination

P - 409

Pharma. Science

June 2022

Time : 2-00 Hours]

[Max. Marks : 50

<b>Q.1</b>	<b>Answer the Following Questions (Any Six)</b>	<b>42 Marks</b>
1	WRITE A DETAILED NOTE ON BALL MILL WITH SUITABLE DIAGRAM.	
2	DEFINE SIZE SEPARATION. STATE THE MODES OF SIZE SEPARATION.	
3	EXPLAIN VARIOUS FACTORS AFFECTING SIZE REDUCTION.	
4	DISCUSS THE CONSTRUCTION, WORKING OPERATION AND APPLICATION OF FLUIDISED BED DRYER?	
5	EXPLAIN IN DETAIL ABOUT THE TRAY DRYERS.	
6	DISCUSS THE ADVANTAGES AND DISADVANTAGES OF FREEZE DRYING IN PHARMACEUTICAL INDUSTRY.	
7	ENLIST THE DIFFERENT COMPONENTS OF AIR HANDLING UNITS AND EXPLAIN THEIR FUNCTIONS.	
8	EXPLAIN THE CONSTRUCTION OF EQUIPMENT FOR HUMIDIFICATION AND DEHUMIDIFICATION PROCESS.	
9	DISCUSS THE PRINCIPLE, APPLICATION, ADVANTAGES, DISADVANTAGES AND APPARATUS USED FOR STEAM DISTILLATION.	
10	DISCUSS THE CONSTRUCTION, WORKING PRINCIPLE AND ADVANTAGES OF MULTIPLE EFFECT EVAPORATOR	
<b>Q.2</b>	<b>Answer the Following Short Questions (Any Eight)</b>	<b>8 Marks</b>
1	WHICH ARE THE DIFFERENT FILTERS USED IN THE AHU?	
2	WHICH ARE THE DIFFERENT CRITERIA FOR CLASSIFICATION OF DRYERS?	
3	WHAT IS THE APPLICATION OF VACUUM DRYER?	
4	DEFINE DRYING CURVE.	
5	WHAT IS THE APPLICATION OF FRACTIONAL DISTILLATION?	
6	ENLIST THREE FACTORS INFLUENCING EVAPORATORS.	
7	WHAT IS CALANDRIA?	
8	WHAT IS AZEOTROPIC DISTILLATION?	
9	DEFINE IDEAL SOLUTION.	
10	EXPLAIN THE TERM SIEVE. ENLIST DIFFERENT TYPES OF SIEVES.	

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