Roll N	Vo.:	Enrolment No	Enrolment No			
		PARUL UNIVERSITY	÷			
		PARUL INSTITUTE OF PHARMACY AND RESEARCH	1.50			
		B.PHARM THIRD SEMESTER				
	•	SECOND INTERNAL THEORY EXAMINATION: 2021-22				
		Post				
Subject Name: Pharmaceutical Engineering Subject Code: BP304T Time: 2:00 to 3:15 PM Date: 31/08/202 Total Marks: 3						
1. Figu		: the right indicate full marks. ble assumptions wherever necessary.		e property of the second of th		
Q.1	.1 Multiple Choice Questions:					
	(1)	The literature of heat transfer generally recognizes distinct modes of heat transfer. How many modes are there? a) One b) Two c) Threed) Four Unit of the rate of heat transfer is		01		
	(3)	a) Joule b) Newton c) Pascal d) WattHow many types of convection process are there?a)One b)Threec)Four d) Two		01		
į	(4)	The equipment used for evaporation known as a) Distillation assembly b) Evaporatorc) Heating mantle d) Dryer		01		
	(5)	Factor affecting evaporation process are a) Temperature b) Time of evaporation c) Surface area d) All of above	;	01		
	(6)	Vortex formation takes place a)In unbaffled tanks (b)At high impeller speed (c) when blades in turbine arranged perpendicular (d) All of the above		01		
	(7)	Which of the following is not mechanism involved in solid solid mixing? a)Convective (b)Bulk Transport (c)Diffusive (d) Shear		01		

Higher the value of mixing index, greater will

a) Bulk Transport (b) Diffusion (c) Agitation

a)solubility (b)Viscosity (c)Density (d) Homogeneity

Which of the following is also known as V cone blender?

a)Double cone (b)Twin Shell(c) Ribbon (d) silverson emulsifier

The movement of large portion of material from one location to another

(d) Convection

(8)

(9)

(10)

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B.PHARMTHIRDSEMESTER

SECONDINTERNAL THEORY EXAMINATION: 2021-22

Subject Name: Pharmaceutical Engineering

Subject Code: BP304T Time: 2:00 to 3:15 PM Date: 31/08/2021
Total Marks: 30

Instructions:

- 1. Figures to the right indicate full marks.
- 2. Make suitable assumptions wherever necessary.

Q.2	Long Answers: (Any One) 1) Give detail note on silverson emulsifier (with labeled diagram)				
	2)	Draw a neat and clean labeled diagram of single pass or tubular heater and explain in detail it's principle, working, construction, advantages, disadvantages and uses.	10		
Q.3	Short Answers: (Any Two)				
	1)	Draw a neat and clean labeled diagram of vertical tube evaporator and explain in detail it's principle, working, and construction.	05		
	2)	Write a note on applications of evaporation.	05		
	3)	Write a note on turbines and paddles.	05		