GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. - SEMESTER- II • EXAMINATION -WINTER -2020

Subject Code: PHARMACEUTICAL ENGINEERING Date: 08/03/2021 Subject Name: BP203TP			
Time: 10:30AM TO 12:30PM Total Marks: 4			,
1 2 3	Atte Q.7 Mał	empt any THREE questions from Q-1 to Q-6. is compulsory to attempt. is suitable assumptions wherever necessary. ares to the right indicate full marks.	
Q.1	(a) (b) (c)	Give the difference between Orifice meter and Venturimeter. Give a short note on Bernoulli's theorem and its applications Discuss Objectives, applications & mechanism of size separation.	06 05 05
Q.2	(a) (b) (c)	Describe the mechanisms of size reduction with suitable examples of Equipment. Describe fluid energy mill. Give a note on official standards of powders.	06 05 05
Q.3	(a) (b) (c)	Discuss factors affecting mixing. Give a short note on planetary mixers. Enlist mixers for liquids. Describe Turbine mixers.	06 05 05
Q.4	(a) (b) (c)	Explain in brief: Rotary drum filter Explain the conical disc centrifuge or De Laval Clarifier. Give Principle, Figure, Working, and Advantages, Disadvantages of a dryer used for Thermo labile and hygroscopic Material.	06 05 05
Q.5	(a) (b) (c)	Give a short note on Fractional Distillation. Write a note on Falling film and Climbing film evaporator. Give a short note on Heat transfer by conduction, convection & radiation.	06 05 05
Q. 6	(a) (b) (c)	What is Solids-Material Handaling System? Give its classification and explain any one in detail.Enumerate the Factors Influencing Selection of Materials and Explain Physical factors in detail.Explain importance of corrosion. Discuss theory of corrosion.	06 05 05
Q.7	(a)	What is thermal radiation? Explain the concept of Black body and Gray body in thermal radiation.	06
	(a) (a)	Give a brief note on ball mill. OR Discuss in brief overall heat transfer coefficient.	06 06
