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Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm. - SEMESTER-II • EXAMINATION - SUMMER -2020

Subject Code: BP203TPDate: 28-10-Subject Name: Pharmaceutical EngineeringTotal MarkTime: 10:30 AM TO 1:30 PMTotal MarkInstructions:1. Attempt any five questions.			
			: 80
2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b) (c)	Explain Bernoulli's Theorem in detail. Discuss principle, construction, working and advantages of Rotameter. Discuss the objectives and various mechanisms of size reduction with examples.	06 05 05
Q.2	(a) (b) (c)	Write a note on construction, principle, working and applications of ball mill.Give the classification of powders based on size and list the specification and standard for sieves.Describe with a clean and labeled diagram the construction, principle, working, advantages, disadvantages and application of cyclone separator.	06 05 05
Q.3	(a) (b) (c)	 Write down in detail about different methods of heat transfer. Define and explain the terms with appropriate example i) Heat exchanger ii) Black body Explain principal, construction, working, merits and demerits of climbing film evaporator with labeled diagram, 	06 05 05
Q.4	(a) (b) (c)	Describes the factors influencing evaporation process. Describe with labeled diagram steam distillation. Write a note on Distillation under reduced pressure.	06 05 05
Q.5	(a) (b) (c)	Draw the drying rate curve and explain the different stages of it. List out Dryers. Write a note on drum dryer. Explain principle, construction, working, applications, advantages and disadvantages of sigma-blade mixer with the help of a diagram.	06 05 05
Q. 6	(a) (b) (c)	Classify impeller and explain all. Describe the construction and working of meta filter with diagram. Write a note on factors affecting filtration Process.	06 05 05
Q.7	(a) (b) (c)	Explain theory of centrifugation. Give its applications in pharmacy. Discuss in detail Non-Perforated basket type centrifuge. Explain different types of corrosion with its prevention.	06 05 05
