Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY** D.Pharm - PART-I- • EXAMINATION - SUMMER-2017

Subject Code:410001			Date: 25/05/2017	
Time Instru 1. 2.	e:10: ections Atte Mal	Name: Pharmaceutics-I 30AM TO 1:30PM Total Marks: 80 s: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a) (b)	Write a note on novel drug delivery system.  How many parts of 80%, 65%, 32% and 20% alcohol to be mixed to get 40% alcohol.  Discuss chicatives and machanisms involved in size reduction.	06	
Q.2	(c) (a) (b) (c)	Discuss objectives and mechanisms involved in size reduction.  Write a note on principle, working, advantage, disadvantage and applications of jet mill with labelled diagram.  Classify types of mixers with examples.  Write a note on planetary mixer with labelled diagram.	05 06 05 05	
Q.3	(a) (b) (c)	Give standards of powders according to I.P. Discuss elutriation methods. Define evaporation. Discuss factors affecting evaporation rate. Enlist different dryers. Write a note on tray dryer.	06 05 05	
Q.4	(a) (b) (c)	Discuss percolation methods.  What are the methods of isotonicity adjustment methods? Write any one in detail.  Write a note on moist heat sterilization.	06 05 05	
Q.5	(a) (b) (c)	Write a short note on compression cycle. Discuss weight variation test for tablets. What are advantages and disadvantages of tablets?	06 05 05	
Q. 6	(a) (b) (c)	Discuss manufacturing of Hard gelatin capsule. Enlist different distillation process. Write in detail any one. Enlist evaluation test for capsules. Write any one in detail.	06 05 05	
Q.7	(a) (b) (c)	Define immunity. Discuss active immunity and passive immunity. Write a note on distillation under reduced pressure. Suggest suitable method of sterilization for ethyl oleate, rubber gloves, ascorbic acid injection, surgical catgut and ophthalmic drops.	06 05 05	

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