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GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-7 • EXAMINATION - SUMMER -2018

Subject Code: 2270001		Code: 2270001 Date: 19/05/201	Date: 19/05/2018	
Time Instru 1. 2.	e: 02 actions Atte Mal	Name: Dosage form Design I :30 PM TO 05:30 PM s: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a)	What is binder? Discuss the effect of binder on formulation of Pharmaceutical	06	
	(b)	what is Disintegrant. Give the mechanism of and Factor affecting disintegrant on formulation of pharmaceutical product.	05	
	(c)	Write a note on effect of emulsifying and suspending agent on Pharmaceutical formulation.	05	
Q.2	(a)	How does particle size influence GI absorption of drugs? Explain with suitable example.	06	
	(b)	Writes the importance of physical forms in drug absorption. Explain with suitable example.	05	
	(c)	Explain the characteristics of Active transport process. Write their application in the development of formulation and administration of drugs.	05	
Q.3	(a) (b) (c)	Define Preformulation? Give its importance. Enumerate the drug degradation pathways and discuss Hydrolysis in detail. Write notes on physicochemical parameters studied in preformulation study.	06 05 05	
Q.4	(a) (b) (c)	Explain world climatic zones as per ICH guidelines. Discuss Brackating and Matrixing in brief. Discuss the factors affecting stability of drug.	06 05 05	
Q.5	(a) (b) (c)	What is BCS? Classify and give the significance of this system Explain USP dissolution apparatus III, IV and V with diagram. What is IVIVC? Describe In-vitro - In-vivo correlations levels.	06 05 05	
Q. 6	(a) (b) (c)	Write a note on similarity factor and dissimilarity factor. Explain: 1) Shelf life 2) Overages 3) Climatic Zones Discuss pH –Partition hypothesis briefly with suitable examples. Enumerate the assumptions of this hypothesis.	06 05 05	
Q.7	(a)	Give its objectives & classification of BCS. Give condition for justifying request of biowaiver.	06	
	(b) (c)	Discuss Brackating and Matrixing in brief. Enumerates factors affecting dissolution of drug, discuss factors related to drug	05 05	

product formulation.

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