GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 8 EXAMINATION - SUMMER-2024

Subject Code:BP814TTDate: 03/05/202Subject Name: Pharmaceutical Product DevelopmentTotal Marks: 8Time: 10.30 a.m. to 1.30 p.m.Total Marks: 8Instructions:Total Marks: 8			Date: 03/05/2024	
			Total Marks: 80	
 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 				
Q.1	(a) (b) (c)	Describe Pharmaceutical Product development process Explain various phases of Clinical trial. Describe the accelerated stability testing method.	with flow chart.	06 05 05
Q.2	(a) (b) (c)	What is Cyclodextrin? Give its applications in pharmaceutical productDevelopment.Discuss quality control test of capsule dosage form.Write note Polyethylene glycols as solubility enhancer for poorly soluble drugs.		06 05 05
Q.3	(a) (b) (c)	Explain the co-process method for direct compressible excipients. Explain Glidant, Lubricants and Anti-adherents with example. Explain the sugar-coating process.		06 05 05
Q.4	(a) (b)	Explain Enteric and Non Enteric coating excipients. Enumerate ideal requirements of excipients used for Aerosol. Discuss about Propellant. Explain in brief about ointment bases		06 05 05
Q.5	(c) (a) (b) (c)	Describe criteria for selection of excipients for parenteral dosage form. Explain advantages and disadvantages of Direct compression process for tablets. Explain the defects and their remedies for tablet coating.		06 05 05
Q. 6	(a) (b) (c)	Explain Plackett and Burman screening design with sui Explain characteristics, merit, demerits and application Explain in details: Excipients use for formulation of NI	table examples. of factorial design DDS.	06 05 05
Q.7	(a) (b) (c)	Explain advantages, disadvantages and types of glass for packing. Explain different types of closure. Explain various elements of QbD.		06 05 05
