PARUL UNIVERSITY FACULY OF PHARMACY

Enrolment No. _____

M.Pharm. Winter 2017 - 18 Examination		
Semester: 1 Subject Code: MPH103T Subject Name: Modern Pharmaceutics	Date: 12/01/2018 Time: 10:00 am to 1:00 pm Total Marks: 75	
Instructions: 1. Figures to the right indicate maximum marks. 2. Make suitable assumptions wherever necessary.		
Q.1 Essay Type Questions. (any 2 out of 3) (15 Marks Each)		(30)
1. Write short note on Response surface Design" with layout and description.		
2. Explain various types of Pharmaceutical dispersion system with example, dis detail.	cuss stokes law in	
3. Describe various types of forces involved in Tablet compression and compac	tion Process.	
Q.2 Short Essay Type Questions. (any 5 out of 6) (5 Marks Each)		(25)
1.Enlist various techniques use for Drug Excipient Interaction studies, explain a detail.	any two techniques in	
2. Give a brief outline of Placket Burman design. How are the main effects com Burman design?	puted in Placket-	
3. Explain Validation Master Plan and Validation procedure of instruments.		
4. Write short note on "Full Factorial Design" with layout and description.		
5. Explain about Highuchi model and Korsmeyer Peppas model for describing of	lrug release process.	
6. Explain Moore Flanner equations for comparision of Dissolution Profile with	limitations.	
Q.3 Short Answers. (2 Marks Each)		(20)
1. Explain following terminologies with reference to D.O.E.:		
i) Interaction ii) Confounding effect		
2. Enlist various USP Dissolution apparatus.		
3. Explain following terminologies with specifications as per GMP guideline:	(Any two)	
i) Change Room ii) Clean Room		
4.Enlist various types of Valiadation		
5. Mention various goals of Preformulation study		
6. Give different subpart of c-GMP guideline		
7. Mention various IPQC test performed during manufacturing of Tablet		
8. What is Validation Protocol ?		
9. Define Experimental Design with its importance		
10.Suggest USP dissolution appratus for poorly soluble drugs with diagram		