Seat No.: Enrolment No	
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GUJARAT TECHNOLOGICAL UNIVERSITY

M. Ph. - SEMESTER- I • EXAMINATION – SUMMER 2018

Subject Code: MPH103T Date: 07/05/2018

Subject Name: MODERN PHARMACEUTICS

Time: 02:30PM TO 05:30PM Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Describe strategy for analytical method development for a new solid dosage form and discuss any two validation parameters as per ICH guidelines.	06
	(b) (c)	Write a note on computer system validation. What are main functions of WHO? What is significance of WHO guidelines?	05 05
Q.2	(a) (b)	Discuss matrixing and bracketing methods of sampling as per ICH. What is process validation? Discuss the advantages and disadvantages of organizational structures for process validation.	06
	(c)	Describe evaluation of the stability data as per ICH guidelines.	05
Q.3	(a) (b)	Give the organization of ICH, & it's objective. Enlist various methods for Drug – Excipient Interaction study, discuss any one in details.	06 05
	(c)	Describe formulation details to prepare small volume parenterals.	05
Q.4	(a)	Enlist various evaluation parameters for Large Volume Parenterals and discuss any two in details.	06
	(b)	Enlist various techniques of optimization for pharmaceutical formulation, discuss any one detail.	05
	(c)	Enlist various applications of factorial design in pharmaceutical formulation.	05
Q.5	(a) (b) (c)	Discuss criteria for selection of pharmaceutical manufacturing plant location. Enlist various objectives of cGMP. Write a note on batch packaging records.	06 05 05
Q. 6	(a) (b)	Describe importance of self inspection and quality audit as per GMP. Enlist various factors affecting compression of tablet and discuss any one in detail.	06
	(c)	Write a note on distribution of forces in preparing tablet formulation.	05
Q.7	(a) (b) (c)	Enlist various parameters affecting Dissolution and describe any one in detail. What is Heckel Plot? Describe its role in tablet physics. Enlist various applications of similarity factor f2 and f1 and ANOVA test in pharmaceutical formulation.	06 05 05
