Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2013

Subject		10108Date: 15-05-2013Industrial Pharmacy-I	Date: 15-05-2013	
Time: 10).30 am	- 01.30 pm Total Marks: 80		
1. 2.	Instructions: 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			
Q.1	(a) (b) (c)	Explain the role of HVAC system in pharmaceutical plant Write a note on personal facilities in pharmaceutical industry Enlist the factors to be considered while selecting a site for Pharmaceutical Plant	06 05 05	
Q.2	(a) (b) (c)	Describe the departmental layout for liquid oral dosage form Enlist equipments required in the manufacture of solid, liquid and parenteral dosage form at pilot level Discuss the factors affecting equipment design in pharmaceutical plant	06 05 05	
Q.3	(a) (b) (c)	Write a note on schedule M for tablet manufacturing unit Enlist equipments require for manufacturing of semisolid dosage forms and discuss any one in detail Describe operating principal of bi-layer rotary tablet machine	06 05 05	
Q.4	(a) (b) (c)	Explain BMR with suitable examples Explain validation protocol and its contents Explain validation of rapid mixer granulator	06 05 05	
Q.5	(a) (b) (c)	What is important of Standard operating procedure? Write Standard operating procedure for dissolution test apparatus Explain standard operating procedure for granulation process at production level Explain in Process quality control test for sterile dosage forms	06 05 05	
Q. 6	6 (a) (b) (c)	Explain importance of GMP in pharmaceutical industry Explain production planning for tablet manufacturing What is importance of materials control in Pharmaceutical industry	06 05 05	
Q.7	(a) (b) (c)	Explain Manufacturing steps and control condition require for formulate sterile dosage form Explain primary and secondary packaging materials Write a note on Scrap disposal procedure and records	06 05 05	
