Seat No.:	Enrolment No.

Subject Code: 910202

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2013

Date: 22-05-2013

Subject Name: Industrial Pharmacy Practice Time: 10.30 am - 01.30 pm **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** Discuss various aspects to be considered in selection of location for 06 (a) Pharmaceutical factory. (b) Discuss principle, construction and working of Triple roller mill. **05** Define SOP and discuss the format of the same. (c) 05 **Q.2** (a) Discuss product protection in context to role of HVAC in pharmaceutical 06 Industry. Write SOP for operation of Tray dyer. 05 (b) Discuss equipment in context to GMP. (c) 05 0.3 (a) Prepare departmental layout with equipment required for liquid orals. **06** Discuss the advantage and features of a good plant layout. (b) 05 Write a note on Master Formula record. (c) 05 **Q.4** (a) Enumerate the methods of inventory control and discuss EOQ method. 06 (b) Discuss Design and Construction features in context to Building and 05 facilities under GMP. Write a note on Batch Packing Record. (c) 05 **Q.5** Define and explain Production and Production Planning. Prepare a 06 (a) schematic diagram showing various functions of production planning and Prepare departmental layout with equipment required for semisolid dosage (b) 05 form. Discuss principle, construction and working of Roller Compactor. 05 (c) Q. 6 Write IPQC test for each of parenteral products, solid dosage forms and 06 (a) semisolid preparations. Discuss Routing and Scheduling in context to production planning. 05 (b) Enlist general considerations in context to pilot plant scale-up techniques (c) 05 and discuss raw materials in the said context. Write the requirements of plant and equipments for the manufacture of **Q.7** 06 (a) ophthalmic preparations under revised schedule M. Write a note on Returned and Salvaged drug products in context to GMP. (b) 05 Write short note on Contract manufacture with reference to pilot plant scale (c) 05 up technique.
