Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 910202 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	(a)	Discuss various aspects to be considered in selection of location for Pharmaceutical factory.	**06**
	(b)	Discuss principle, construction and working of Triple roller mill.	**05**
	(c)	Define SOP and discuss the format of the same.	**05**
Q.2	(a)	Discuss product protection in context to role of HVAC in pharmaceutical Industry.	**06**
	(b)	Write SOP for operation of Tray dyer.	**05**
	(c)	Discuss equipment in context to GMP.	**05**
Q.3	(a)	Prepare departmental layout with equipment required for liquid orals.	**06**
	(b)	Discuss the advantage and features of a good plant layout.	**05**
	(c)	Write a note on Master Formula record.	**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 facilities under GMP.	**05**
	(c)	Write a note on Batch Packing Record.	**05**
Q.5	(a)	Define and explain Production and Production Planning. Prepare a schematic diagram showing various functions of production planning and control.	**06**
	(b)	Prepare departmental layout with equipment required for semisolid dosage form.	**05**
	(c)	Discuss principle, construction and working of Roller Compactor.	**05**
Q. 6	(a)	Write IPQC test for each of parenteral products, solid dosage forms and semisolid preparations.	**06**
	(b)	Discuss Routing and Scheduling in context to production planning.	**05**
	(c)	Enlist general considerations in context to pilot plant scale-up techniques and discuss raw materials in the said context.	**05**
Q.7	(a)	Write the requirements of plant and equipments for the manufacture of ophthalmic preparations under revised schedule M.	**06**
	(b)	Write a note on Returned and Salvaged drug products in context to GMP.	**05**
	(c)	Write short note on Contract manufacture with reference to pilot plant scale up technique.	**05**

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