Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2015 Subject Code: 910208 Date: 02-01-2016

Subject Name: Industrial Pharmacy - II

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)	Write significance of pilot plant scale up study. Discuss about large scale manufacturing techniques of tablets.	06
	(b) (c)	Importance of stability parameter in scale up techniques. Write note on technology transfer: Pilot plant to production.	05 05
Q.2	(a) (b) (c)	What is production scheduling? Explain with suitable example. Discuss the cost control elements in production management. Sales forecasting and production planning is important management tools. Discuss its effect on costing of the product.	06 05 05
Q.3	(a) (b) (c)	Discuss role and responsibilities of personnel in production management. Explain the flow Chart of Effluent Treatment for Antibiotic Plant. Write in detail note on various techniques used in inventory management.	06 05 05
Q.4	(a) (b) (c)	NDDS products reports problems in product uniformity and stability compared to conventional dosage forms while scaling up: why? Write a short note on documentation importance in maintenance. How will you improve the scalability?	06 05 05
Q.5	(a) (b) (c)	Formulation based scaling-up of liquid oral may not result in required output at industrial mfg- Comment on this. Explain formulation scale-up of Oral liquid from F&D to Ind. Mfg. Classify the industrial hazards and discuss fundamentals of accident prevention.	06 05 05
Q.6	(a) (b) (c)	Classify the industrial hazards and discuss fundamentals of accident prevention. Discuss the management of scrap disposal in pharmaceutical plant. Discuss on safety measures and pollution control measures applicable in pharmaceutical industries.	06 05 05
Q.7	(a)	Expansion in a running production facility is really challenged in Pharma industry. Initial investment vs profit diversion compare pros & cons of this aspect.	06
	(b) (c)	Write a short note on provision for health and safety as per Factory act. Explain COD. Discuss monitor and controls for COD of industrial waste water.	05 05
