Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY MBA - SEMESTER 2 - • EXAMINATION – WINTER 2015

Date: 01/01/2016

Subject Code:820006

	-	Name: Production and Operations Management 2.30 PM TO 05.30 PM Total Marks:	70
Inst	2.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is meant by the expressions "Order Winners" and "Order qualifiers"? What was the order winner for your last major purchase of a product or service?	07
	(b)	As a project manager of a large petro-chemicals refinery, how will you select the appropriate location of a plant? Discuss the various factors affecting your decision.	07
Q.2	(a)	Explain the concept of material handling and discuss various material handling equipments	07
	(b)	A company uses 1200 units per month of a electronic component each costing Rs. 2. Placing each order costs Rs. 50 and the carrying cost is 6% per year of the average inventory. Find (1) EOQ, (2) If the company gets 5% discount, if it places single order, should they accept the discount offer?	
		OR	
	(b)	Write a brief note on Economic order quantity. Explain dependent and independent demand with example.	07
Q.3	(a)	What are the routing, dispatching, prioritization and expediting. Explain	07
	(b)	Explain the difference between PERT and CPM OR	07
Q.3	(a)	Explain Gantt Chart as a tool for shop floor planning and control	07
	(b)	What do you understand by "Operations scheduling". List down the objectives of scheduling	07
Q.4	(a)	Discuss the contribution of gurus in the field of quality	07

	(b)	Discuss 5S principles of Japanese management	07
		OR	
Q.4	(a)	Explain six sigma process of Japanese manufacturing	07
	(b)	Write a note on industrial safety and safety management	07
Q.5	(a)	Identify different types of inspection and discuss their role in the quality control and assurance process. What is the relationship between inspection and acceptance sampling	07
	(b)	Define aggregate production planning. Discuss various strategies of aggregate production planning. OR	07
Q.5	(a)	Explain the types of manufacturing process in brief with suitable examples	07
	(b)	Explain different types of layout with examples	07
