Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II– EXAMINATION – WINTER - 2016

	•	t Code: 2722810 Date: 21/11/20	16
Tiı	ne: 2 tructio 1. 2.	t Name: Production & Operation Management 2:30 pm to 5:00 pm Total Marks: ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	70
Q.1	(a) (b)	Define Production and Operation management. Discuss duties of Production Manager in manufacturing organization.  Define Production Planning and Control. Explain briefly the objectives of Production Planning and Control.	07 07
Q.2	(a) (b)	Explain types of production system. Explain any one.  Define material handling. What are the different types of material handling systems?	07 07
	<b>(b)</b>	OR  Explain the various factors that affect the selection of materials handling equipment.	07
Q.3	(a) (b)	What is aggregate planning? What are its objectives?  Define make or buy decision? Which factors affect make or buy decision?  OR	07 07
Q.3	(a) (b)	Discuss the scope of aggregate planning. Discuss various strategies of aggregate planning.  What is master production scheduling? Discuss the key functions of master production scheduling.	07 07
Q.4	(a) (b)	What is line balancing? Discuss the steps involved in line balancing procedure in assemble layouts.  Explain the objectives of maintenance. Why maintenance is needed?	07 07
Q.4	(a) (b)	OR Discuss the need for forecasting. Discuss the factors to be considered in the selection of a forecasting method. Explain preventive maintenance. Distinguish between preventive maintenance and breakdown maintenance.	07 07
Q.5	(a) (b)	Explain material management. State the importance of material management. Define the term safety stock, reserve stock and buffer stock with the help of a diagram and explain the terms minimum stock level, maximum stock level, reorder level and lead time.	07 07
Q.5	(a) (b)	OR  Define the term inventory and inventory management. Explain the various techniques of inventory control.  What is "Just in time system"? Explain the three fundamental concepts of Just In Time.	07 07
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