

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

**Subject Code:820006****Date: 01/01/2016****Subject Name: Production and Operations Management****Time:02.30 PM TO 05.30 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. 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 **07**

**OR**

**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. 07

**OR**

**Q.5** (a) Explain the types of manufacturing process in brief with suitable examples 07

(b) Explain different types of layout with examples 07

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