

**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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