

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MBA(TM) – SEMESTER – 10 • EXAMINATION – SUMMER - 2018**

**Subject Code:4210102****Date: 01/05/2018****Subject Name: Production Management****Time: 10:30 AM To 01:30 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 EOQ? Explain how order quantity is determined using the basic Economic Order Quantity Model. **07**  
(b) As a project manager of a large petrochemical refinery, how will you select the appropriate location of a plant? Discuss various factors affecting your decision. **07**
- Q.2** (a) What do you mean by Six Sigma? Explain the various analytical tools associated with Six Sigma. **07**  
(b) Explain the different types of layout. Additionally differentiate between product and process layout. **07**
- OR**
- (b) Differentiate between production and operation. Additionally explain in detail the objectives and functions of production planning and control. **07**
- Q.3** (a) What do you mean by operations management? Discuss the nature and scope of operations management. **07**  
(b) What do you mean by JIT? Explain the concept and discuss its importance. **07**
- OR**
- Q.3** (a) Write a short note on ISO-9000 and ISO-14000 **07**  
(b) What do you mean by TQM? Explain various tools associated with Quality Management. **07**
- Q.4** (a) What are the two types of maintenance? Explain in relation to the types of maintenance. **07**  
(b) Explain the ABC analysis technique of Inventory Control. **07**
- OR**
- Q.4** (a) Explain the characteristics of Modern Manufacturing. **07**  
(b) In what way might the first-come, first-served rule be unfair to the customer waiting for service in a bank or hospital? **07**
- Q.5** (a) What are the routing, dispatching, prioritization and expediting? Explain **07**  
(b) Discuss the pros and cons for a company considering a foreign location for its operations. **07**
- OR**
- Q.5** (a) Define inventory and inventory management. What different cost components to be considered while controlling the inventory? **07**  
(b) "Project control should always focus on the critical path"- critically examine the statement. **07**

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