

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**M.Tech., Winter 2017 - 18 Examination**

**Semester: 2**  
**Subject Code: 03208180**  
**Subject Name: Industrial Management**

**Date: 12/01/2018**  
**Time: 02:00 pm to 04:30 pm**  
**Total Marks: 60**

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**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) Define: a) Planning      b) Organizing      c) Staffing      d) Directing      e) Controlling      **(05)**  
B) What is the difference between CPM & PERT?      **(05)**  
C) Explain the salutation algorithm for ALDEP.      **(05)**

- Q.2** **Answer the following questions.** (Attempt any three) (Each five mark)      **(15)**

- A) Explain any four world class best practices in SCM with example.  
B) Alfa industry needs 15000 units per year of a bought-out component which will be used in its main product. The ordering cost is Rs. 125 per order and the carrying cost per unit per year is 20% of the purchase price per unit. The purchase price per unit is Rs. 75. Find economic order quantity and number of orders per year.  
C) Briefly explain OC curve and error associated with it using example  
D) Explain JIT, ERP and BPR.

- Q.3** A) What is control chart? When to use control charts? Explain different types of control charts.      **(07)**  
B) Define acceptance sampling? What are the various types of sampling plans? Explain each with example.      **(08)**

**OR**

- B) What do you understand by quality management? Write short note on TQM      **(08)**

- Q.4** A) What is Six Sigma? Explain various steps of DMAIC process in detail.      **(07)**

**OR**

- A) Explain Kaizen, Fishbone diagram and Poka Yoke techniques with suitable examples.      **(07)**  
B) Explain the “Bullwhip Effect” for a multinational company. Describe how you will curb the same, if you are the SCM head of that MNC      **(08)**