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BME-013

**B.Tech. MECHANICAL ENGINEERING
(COMPUTER INTEGRATED MANUFACTURING)**

Term-End Examination, 2019

BME-013 : PRODUCTION MANAGEMENT

Time : 3 Hours]

[Maximum Marks : 70

Note : Answer any five questions. All questions carry equal marks. Use of scientific calculator is allowed.

1. (a) List the principles related to facility layout: What are the advantages and disadvantages of process layout ? Discuss. [7]
- (b) List the various factors affecting the site location decision for a manufacturing facility. Explain the Break-even-analysis method for evaluating the alternatives of locations. [7]
2. (a) Explain the Critical Path Method (CPM) for project management. [7]
- (b) Discuss the Simple Exponential Smoothing method for demand forecasting with the help of suitable example. [7]

3. (a) What do you understand by Pre-determined Motion Time (PMT) ? Discuss its advantages. [7]
- (b) Define work study and list the steps to perform the work study. [7]
4. (a) Discuss main features of Enterprise Resource Planning (ERP). [7]
- (b) Explain different lot sizing method in Material Requirement Planning (MRP). [7]
5. (a) Explain the following terms with the help of relevant examples :
constraint, bottleneck. [7]
- (b) What are the benefits achieved from an integrated supply chain ? Discuss. [7]
6. (a) Discuss the differences between control chart for variables and control chart for attributes. [7]
- (b) What is balance scorecard ? What are the various functions of balance scorecard ? [7]

7. Write short notes on **any two** of the following : [2x7=14]

- (a) Gantt Chart
- (b) Aggregate production planning
- (c) Kanban System
- (d) Capacity planning

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