No. of Printed Pages : 3

**BME-013** 

# BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

## **Term-End Examination**

### June, 2013

## **BME-013 : PRODUCTION MANAGEMENT**

Time : 3 hours

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Maximum Marks : 70

Note : Attempt **10** questions in all. Five each from section A and **B**. Use of scientific calculator is allowed..

#### SECTION-A

- Describe features of Production Management.
  What are the skills required for a production manager.
- Discuss the characteristics of different forecasting 7 methods in Production Management. What are the steps involved in each method?
- 3. What are the various types of project 7 organisations? What do you understand by Project Scheduling?
- What do you understand by PERT? How are 7 mean and variance calculated in PERT? Explain with examples.

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P.T.O

- How does MRP reduce the inventory investment?
  How does MRP increase plant operating efficiency ?
- What do you understand by pre-determined 7 motion time ? Explain the different forms of PTS systems with examples.

#### SECTION-B

- Explain Nine rules for bottle-neck scheduling in 7 TOC.
- What are the benefits of an integrated supply 7 chain ? Explain Bull-whip effect and factor responsible for it.
- 9. Why is it important to manage Inventory and 7 operating expanses ? Explain synchronous manufacturing. How is TOC related to it ?
- 10. What are the main differences between 7 fixed-order quantity model and fixed time period model ?
- 11. Consider an economic order quantity case where annual demand D=500 units economics order quantity Q=100 units, the desired probability of not stocking out P=0.95, the standard deviation of demand during lead time  $\sigma_L$ =20 units and Lead time L=12 days. Determine the reorder points. Assume that demand is over a 250 work day/year.
- 12. What is Gantt Chart ? Explain the importance of 7Gantt chart in project planning ?

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