BME-013

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

Term-End Examination

December, 2013

BME-013 : PRODUCTION MANAGEMENT

Time : 3 hours

Maximum Marks : 70

Note: Attempt **10** parts in all. Attempt **5** (Five) questions each from section A and B. Use of calculator is allowed.

SECTION-A

- What are the different functional units of an 7 organization ? What are the roles played by the production unit ? Explain.
- 2. Explain the procedure of performing break-even 7 analysis. What are the various applications of cost volume profit analysis ?
- 3. What do you understand by demand 7 forecasting? What ae the conditions required for precise forecasting? Explain.
- 4. What are the characteristics of production system 7 to support MRP? What is the effect of lot size in MRP?

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- 5. What is the aggregate production planning ? 7 What are the different categories of production schedule ?
- 6. Define work sampling and correlate it with the **7** reasonableness of labour costs.

SECTION-B

- Define logistics and explain it with the help of block diagram. Explain the various factors of logistics with special reference to transportation.
- Explain the concepts involved in Theory of Constraints (TOC). What are the different steps involved in TOC ? Also explain the term constraint, bottleneck, non-bottleneck and throughput.
- 9. What are the various components of a supply 7 chain ? Explain the performance attributes of a supply chain.
- 10. What is balance scorecard ? What are the various 7 functions of balance scorecard ? Create a balance scorecard for your organization.
- 11. Find the economic order quantity (EOQ) and the recorder point. Given
 Annual demand (D) =2,000 Units
 Average daily demand (d) = 2,000/365
 Ordering cost (S)=Rs. 4.2 per order
 Holding cost (H) = Rs.1.75 per unit per year
 Lead time (L) = 5 days
 Cost per unit (C) = Rs.10.75
 What quantity should be ordered ?
- How is JIT implemented in service industries ? 7 Describe the advantages of JIT system.

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