

**Total No. of Questions : 09**

**B.Tech.(Automation & Robotics) (2011 Batch E-II)/  
B.Tech.(ME) (2011 Onwards E-II) (Sem.-7,8)**

## MATERIAL MANAGEMENT

**Subject Code : DE/ME-2.7**

**Paper ID : [A2924]**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

## SECTION-A

- 1. Write briefly :**
- What are various functions of materials management?
  - Discuss the relationship of materials management with other organisations functions.
  - Discuss in details the concept of materials classification, codification and standardisation.
  - What is an inventory control?
  - Explain the concept of JIT.
  - What are various purchase systems?
  - Discuss various approaches to make or buy decisions.
  - What is fixed order system?
  - What are various inputs to MRP?
  - What is FSN analysis?

### SECTION-B

2. An automobile company has extra capacity that can be used to produce gears that the company has been buying for Rs. 300 each. If the company makes gears, it will incur materials cost of Rs. 90 per unit, labour cost of Rs. 120 per unit and variable overhead cost of Rs. 30 per unit. The annual fixed cost associated with the unused capacity is Rs. 240,000. Demand over the next year is estimated at 4000 units. Would it be profitable for the company to make gears?
3. What are various purchasing methods? Explain in detail.
4. What is material handling? What is its importance?
5. What is dynamic purchasing?
6. Explain various types of inventories.

### SECTION-C

7. What is MRP? What are various input of MRP system? Explain them in detail.
8. 500 ml bottles are used for certain tablets and powders. Annual requirements are 250000, the price is Rs. 8 per thousand the cost of holding stock is 15% per annum, and the marginal cost of ordering is Rs. 1.2. Find out the economic order quantity.
9. Discuss various factors for selection of materials handling equipment in stores.