

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 4087

Roll No.

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B. Tech.

(SEM. V) ODD SEMESTER THEORY EXAMINATION
2010-11

MATERIALS MANAGEMENT

Time : 3 Hours

Total Marks : 100

Note : Attempt all questions.

1. Attempt any **four** parts of the following : **(5×4=20)**

- Describe the factors influencing the plant layout.
- Define material handling and enlist the functions of material handling.
- Describe the need of transportation for goods.
- Explain the Conveyor System in material handling and also give the applications.
- How will you classify the material handling devices ?
- State the various procedural steps in planning the layout.

2. Attempt any **four** parts of the following : **(5×4=20)**

- What are the objectives of purchasing ?
- Define value analysis. What are its advantages ?
- Explain the terms : Purchase order and Purchase requisition.
- Explain the rationalization of material.
- Describe vendor rating.
- What are the differences between centralised purchasing and decentralised purchasing ?

3. Attempt any **two** parts of the following : (10×2=20)
- (a) Discuss the significance of quality of material. Explain the concept of acceptance sampling.
 - (b) Define Material Requirement Planning (MRP) and describe the various inputs to MRP system. How does it differ from MRP II ?
 - (c) Elaborate on the statement "In make/buy decisions the main six considerations relate only to cost, quality, quantity, service, skillmix and capacity".
4. Attempt any **two** parts of the following : (10×2=20)
- (a) Name and describe the various inventory models in brief.
 - (b) Define JIT production. State the merits and demerits of JIT production system.
 - (c) A company needs 600 units per month, the procurement cost is Rs. 36 per order, the cost of holding it in stock is Rs. 1.20 per unit per year, determine the quantity that should be procured at a time to optimise the cost involved. If the consumption of the above item increases to 40 numbers per day and its actual inventory cost is Rs. 0.50 per unit per month, what will be the revised EOQ ?
5. Attempt any **two** parts of the following : (10×2=20)
- (a) Explain the concept of warehouse operating system.
 - (b) Describe the different types of storage systems.
 - (c) Name the various methods of valuation of materials issued from stores and explain one of them in details.