

Roll No. ....

Total No. of Questions : 08]

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## Paper ID [IE509]

(Please fill this Paper ID in OMR Sheet)

M.Tech. (Sem. - 3<sup>rd</sup>)

MATERIAL MANAGEMENT (IE - 509)

MAY 2008

Time : 03 Hours

Maximum Marks : 100

### Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) **All** questions carry equal marks.

- Q1) Discuss the functions and objectives of material management.
- Q2) What is a comparative statement? How far it is helpful in selecting a right source of supply? Discuss.
- Q3) Write a detailed note on receiving and shipping.
- Q4) How inventory problems are classified? Explain lead time, stock out and inventory costs with examples.
- Q5) What is an EOQ model. Comment on the necessity of having an Economic order quantity and illustrate.
- Q6) A certain trailer manufacturing company uses 2400 wheels per year in the manufacture of trailers. Lead time is 30 days. Minimum stock maintained is equal to one month consumption. Inventory carrying cost is Rs. 100 and cost of one wheel is Rs. 50. Determine optimal order quantity, maximum inventory level and average inventory level.
- Q7) What is the purpose of keeping safety stock. Describe the general procedure for arriving at the value of an economic lot size when the quantity discount is available.
- Q8) Write notes on:
  - (a) Periodic order quantity.
  - (b) Single period inventory models.

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