

Paper ID [PE509]

(Please fill this Paper ID in OMR Sheet)

M. Tech.

PRODUCTION PLANNING & CONTROL (PRE - 508/509)

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

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

- Q1)** (a) Explain the role of market surveys in production planning.
(b) What is pre-planning? Why is it important to run the manufacturing plant smoothly and what are the activities it covers.
- Q2)** (a) What is meant by machine and process capability? How process capability can be measured?
(b) What are the different demand patterns observed in a demand time series? Explain them.
- Q3)** (a) Explain the various activities covered under Routing. Show the typical route sheet and the information it contains.
(b) Explain the use of Machine Load Chart and Gantt Chart.
- Q4)** (a) What are the various functions of Dispatching?
(b) Explain the following terms: Wage payment card, Job ticket, Inspection card, Material requisition note.
- Q5)** (a) Discuss the various elements of various cost involved in keeping inventories.
(b) What is EOQ? How is it calculated. List the assumptions made to calculate economic order quantity.
- Q6)** (a) Discuss the various strategies, which a company can adopt to run the production smoothly. Discuss back ordering, in detail.

(b) Discuss the main characteristics and advantages/disadvantages of lot for lot (L + L) policy to order production components.

Q7) (a) Explain the role of purchasing in a production company. What are the different procedures for purchasing?

(b) Discuss the need, scope and advantages of value analysis.

Q8) Write short notes on the following:

(a) Quantity Discounts.

(b) Safety Stock.

(c) Capacity Analysis.