

Roll No.

Total No. of Questions : 08]

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M.Tech.

PRODUCTION AND INVENTORY CONTROL

SUBJECT CODE : IE - 508

Paper ID : [E0633]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

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

- Q1)** (a) Discuss various types of production systems and distinguish them on the basis of their characteristics.
(b) What is demand forecasting? Discuss any two techniques of demand forecasting.
- Q2)** (a) What do you understand by supply chain management? Explain with suitable example.
(b) What is inventory control? Also explain economic order quantity.
- Q3)** (a) What is production control? Discuss computer applications in production control.
(b) What is production planning? How it is related with capacity planning?
- Q4)** (a) Discuss modern developments in production and operations management.
(b) What is master production scheduling? Discuss its applications.
- Q5)** (a) Explain and comment upon :
ABC Analysis
VED Analysis.
(b) Compare and contrast JIT and MRP.
- Q6)** (a) What do you understand by ERP?
(b) Discuss the importance of resource planning for a productive system.

(c) Identify the factors, which need to be considered in developing an inventory model.

Q7) (a) Define Production Planning and Control (PPC), identify the objectives of PPC and also discuss the importance of PPC for an industrial organization.

(b) Define Inventory. Enumerate the reasons for holding inventory in the light of its classical definition 'an idle resource'.

Q8) (a) How analysis of a production system is carried out?

(b) Distinguish between forecasting and prediction. Discuss the concept of economic forecasting.

(c) Identify the benefits, reasons and objectives of forecasting.

