

Total Marks: 80

Time: 3 Hours



Note:

- 1) Question No. 1 is Compulsory
- 2) Answer any three from remaining five.
- 3) Draw figure, charts, block diagram wherever required.
- 4) Numbers in bracket to right side indicates the marks.

Q. 1. Write in brief Importance of following

(05 x4=20)

- a) P & Q system of Inventory
- b) Ergonomics & workplace design
- c) Plant Layout
- d) Supply Chain Management

Q. 2.

- (a) Explain life cycle of production with different stages. write (a) decision (b) challenges (c) major consideration at each stage. (10)
- (b) List and compare different types of Production systems with their characteristics (10)

Q.3.

- a) Explain the functions of production planning, control and its interrelationship with other functions. (10)
- b) What is capacity planning? Explain in brief the process of capacity planning. (10)

Q.4.

- (a) What is Lean Manufacturing? List waste as per Just in Time (10)
- (b) What is work study? Explain the steps for Method and Time study (10)

Q.5.

- (a) What is the objective of Material Requirement Planning (MRP) and Capacity Requirement Planning (CRP)? Also explain term Dependent demand, Parent and component items, Bill of materials, Level code, Requirements explosion, Lead-time offset. (10)
- (b) Following data is provided for inventory, (10)

Demand = 380 units,

Holding cost = ₹ 0.80 /unit/year

Order cost = ₹ 100 order

Number of working days = 250 day /year

Find:

1. What is the EOQ?
2. What is the expected time between order?
3. What is the total cost of inventory?

Q.6. Write short notes

(05x04=20)

- (a) Purchasing cycle
- (b) Standard Time & Normal time
- (c) Primary Activities and Support system: Value Chain
- (d) Material Requirement Planning

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