

Answer FIVE Questions choosing ONE question from each module (NOTE: Provision is given to answer TWO questions from any ONE module) All Questions Carry Equal Marks All parts of the question must be answered in one place only

### $\mathbf{MODULE}-\mathbf{I}$

- 1. (a) What are the main objectives of production planning and control (PPC)? Explain the important elements of PPC. [BL: Understand] CO: 1|Marks: 7]
  - (b) Explain unit production. State its characteristics. Differentiate between production planning and production control. [BL: Understand] CO: 1|Marks: 7]
- 2. (a) List out and explain the various types of manufacturing processes. Write any three differences between mass production and flow production. [BL: Understand| CO: 1|Marks: 7]
  - (b) Discuss planning functions and controlling functions separately and explain them briefly.

[BL: Understand| CO: 1|Marks: 7]

### $\mathbf{MODULE}-\mathbf{II}$

- 3. (a) What is meant by VED analysis? Write its significance. Compare VED analysis with ABC analysis. [BL: Understand] CO: 2|Marks: 7]
  - (b) Categorize the items according to ABC analysis for the given data given in Table 1.

[BL: Apply] CO: 2|Marks: 7]

Item No	11	12	13	14	15	16	17
Unit Cost	5	10	14	7	6	15	20
Annual Demand	47000	1500	200	700	4700	1100	17000

Table 1

4. (a) What are the main functions of forecasting? Describe 'Least square method' of sales forecasting with its advantages and limitations. [BL: Understand| CO: 2|Marks: 7]

(b) Compute EOQ and the total variable cost from the following information: Annual demand = 4,000 units Units Price = Rs. 40 Order Cost = Rs. 20 Storage Rate = 7% Per annum Interest Rate = 3% Per annum
[BL: Apply] CO: 2|Marks: 7]

### MODULE – III

- 5. (a) What are the conditions for successful implementation of MRP? Discuss the principles of MRP system. [BL: Understand| CO: 3|Marks: 7]
  - (b) Write short note on bill of material with an example. Explain Just in time technique for production system.
     [BL: Understand| CO: 3|Marks: 7]
- 6. (a) Write about inventory. What are the various types of inventory? Why are they maintained? [BL: Understand] CO: 4|Marks: 7]
  - (b) What do you mean by routing? Explain the factors affecting the routing procedure.

[BL: Understand| CO: 4|Marks: 7]

# $\mathbf{MODULE}-\mathbf{IV}$

7. (a) What is line balancing? What is its importance in PPC? Explain it with an example.

[BL: Understand |CO: 5 |Marks: 7]

- (b) Write a short note on the aggregate planning. Explain the pure strategies of aggregate planning. [BL: Understand] CO: 5|Marks: 7].
- 8. (a) What do you mean by expediting and controlling aspects.Differentiate between centralized and decentralized dispatching procedures. [BL: Understand| CO: 5|Marks: 7]
  - (b) Explain the master production scheduling. Enumerate any five differences between loading and scheduling. [BL: Understand| CO: 5|Marks: 7]

# $\mathbf{MODULE}-\mathbf{V}$

9. (a) Describe dispatching control in intermittent production and continuous production.

[BL: Understand] CO: 6|Marks: 7]

- (b) Differentiate between centralized and decentralized dispatching procedures. State various activities of a dispatcher. [BL: Understand] CO: 6|Marks: 7]
- 10. (a) Explain about followup. Discuss the applications of computer in production planning and control. [BL: Understand] CO: 6|Marks: 7]
  - (b) What is the purpose of active functions of dispatching and expediting? Give a list of records maintained by dispatching department. [BL: Understand| CO: 6|Marks: 7]

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