

**2023**

***Time - 3 hours***

***Full Marks - 80***

*Answer all groups as per instructions.*

*Figures in the right hand margin indicate marks.*

**GROUP – A**

1. Fill in the blanks. (all) [1 × 12]
- (a) SPC stands for \_\_\_\_\_.
  - (b) ROP stands for \_\_\_\_\_.
  - (c) VED in inventory management stands for \_\_\_\_\_.
  - (d) In EOQ model, we try to find \_\_\_\_\_ for which the total cost is minimum.
  - (e) \_\_\_\_\_ is the cost of preparing a purchase order for a supplier or a production order for manufacturing.
  - (f) \_\_\_\_\_ is the inventory moving from point to point in the material flow system.
  - (g) Labour, money and energy are examples of \_\_\_\_\_.
  - (h) Planning capacity needs are an important duty of the \_\_\_\_\_ manager.

[ 2 ]

- (i) \_\_\_\_\_ management involves planning the processes that transform resources into finished products.
- (j) MRP stands for \_\_\_\_\_.
- (k) SCM stands for \_\_\_\_\_.
- (l) ERP stands for \_\_\_\_\_.

**GROUP – B**

2. Answer any eight of the following questions within two to three sentences each. [2 × 8]
- (a) Define operations management.
  - (b) What is Inventory ?
  - (c) What is MRP ?
  - (d) Define EOQ.
  - (e) What is product layout ?
  - (f) What is Lead Time in Inventory management ?
  - (g) What are the different types of service operations ?
  - (h) What is Quality ?
  - (i) What is 'Product availability' ?
  - (j) How to measure efficiency of a production system ?

[ 3 ]

**GROUP – C**

3. Answer any eight of the following questions within 75 words each. [3 × 8]
- (a) Define Production and Operations Management.
  - (b) What is product design ?
  - (c) What is process design ?
  - (d) What is quality control ?
  - (e) What are the different planning horizons ?
  - (f) What are the objectives of inventory control ?
  - (g) What is Value Analysis ?
  - (h) What is Just in Time (JIT) ?
  - (i) What are the different plant layouts ?
  - (j) What is productivity ?

**GROUP – D**

*Answer all questions within 500 words each.*

4. What are the functions of production and operations management ? Do the functions have any relation with the size of the organization ? If so, explain with examples. [7]

OR

[ 4 ]

Discuss the importance of productivity measurement. What are the different measures of productivity ? Explain with examples.

5. What is work measurement ? Discuss the various techniques of work measurement with its procedure. [7]

OR

What are the principles of motion economy ? Discuss the principles of motion economy as related to work place.

6. "Location decision is a trade-off decision." – why ? Elaborate. [7]

OR

What is material handling ? Discuss the various principles of material handling.

7. Actual demand differs from forecasted demand. How to adjust the aggregate plan to meet this situation ? [7]

OR

What is 'Value Analysis' ? Why is it important ? Discuss the different phases of Value Analysis.