

(i) Printed Pages : 3

Roll No.

(ii) Questions : 14

Sub. Code :

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Exam. Code :

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Bachelor of Commerce 5th Semester

(2125)

PRODUCTION AND OPERATION MANAGEMENT

Paper : BCM-504

Time Allowed : Three Hours]

[Maximum Marks : 80

SECTION—A

(Short Answer Type Questions)

Attempt any **four** of the following

1. Define Capacity Planning and explain its significance.
2. Differentiate between centralized and decentralized purchasing.
3. What is EOQ? Calculate EOQ for:
 - Annual demand = 2400 units
 - Ordering cost = Rs. 50
 - Carrying cost = 25% of unit price (Rs.20)
4. Explain the concept of JIT inventory.
5. What is the role of strategic planning in production management?
6. Differentiate between PERT and CPM. 4×5=20

SECTION—B

(Attempt any two questions)

7. A company has five jobs to be processed through two machines. The processing times are:

Jobs	Machine A	Machine B
J1	4	6
J2	3	5
J3	7	2
J4	6	4
J5	5	3

Use Johnson's Rule to determine the optimal sequence.

8. Discuss the steps involved in New Product Design and Development.
9. Explain the concept and importance of Facility Layout in operations.
10. Define Network Analysis. Illustrate with a simple PERT chart and explain crashing. $2 \times 15 = 30$

SECTION—C

(Attempt any two questions)

11. Explain Work Study and its components. How does it improve productivity?

12. A company faces the following inventory situation:

Demand = 3000 units/year

Ordering cost = Rs. 100

Carrying cost = 30% of unit price (Rs. 25)

Calculate EOQ and total cost.

13. Discuss the concept and components of Supply Chain Management.

14. Write short notes on:

(a) Lead Time

(b) Quantity Discount

(c) Safety Stock

2×15=30