MAY 2025 **P/ID 77937/RMB3N**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is capacity planning?

2. Define crossover chart.

3. What is meant by production design?

4. Define Ergonomics.

5. What is multi-plant location?

6. Define plant layout.

7. What is buffer stock?

8. Write down the formula to calculate economic order quantity.

9. What is work sampling?

10. Define acceptance sampling.

11. What do you mean by waiting line?

12. Define service delivery.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. What are the different types of charts used in operations management? Explain.

14. Elucidate the scope and functions of operations management.

15. Analyse the factors to be considered for plant layout.

16. Elaborate the characteristics of a good plant location.

17. Discuss the purpose of classification and codification of stock.

18. Give a detailed note on work sampling techniques.

19. Explain different types of services used in operations management.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Discuss the need for inventory management. Discuss the inventory control techniques in detail.

21. Critically examine the strategies and types of capacity planning in operations management.

22. Discuss the advantages and disadvantages of different types of production process.

23. Summarize the objectives and techniques of work measurement.

24. Discuss the factors to be considered for service facility layout.

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