

PART C (6 x 5 = 30 Marks)

21. Discuss on the step-by-step procedure to be followed in location analysis using Center of gravity method. CO1 [K₄]
22. List down the location strategies considered for manufacturing sector. CO1 [K₃]
23. What are the Objectives and Features of a good Layout design? CO2 [K₂]
24. How Return on Investment (ROI) is used in business decision-making and investment analysis? CO3 [K₂]
25. Explain on Unit load concept in material handling. CO4 [K₅]
26. Analyze the characteristics and features of break bulk warehouses. CO5 [K₄]

Answer any FOUR Questions
PART D (4 x 10 = 40 Marks)

27. For the following case study assume a location of your choice and conduct a detailed analyze and recommend your suggestions. CO1 [K₄]
Case Study: Facility Location Analysis for a Retail Company
Background:
A leading retail company is planning to expand its operations by opening a new distribution center to meet the growing customer demand and improve supply chain efficiency. The company wants to conduct a facility location analysis to identify the optimal location for the new facility.
Objective:
The objective of the facility location analysis is to identify a location that minimizes transportation costs, maximizes customer reach, ensures efficient supply chain operations, and provides access to a skilled workforce.
28. Explain in detail on Layout planning algorithms. CO2 [K₅]
29. Examine on various Strategy Driven Investments for capacity expansion. CO3 [K₄]
30. Explain in detail material handling equipment and its categories. CO4 [K₅]
31. Discuss in detail on Consolidation and Break-bulk Warehouses. CO5 [K₆]
