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IAT Scheme & Solution

Sub: Logistics & SCM Code: 20MBAMM402

Date: 09-07-2022 Duration: 90 mins Max Marks: 50 Sem: IV Branch: MBA

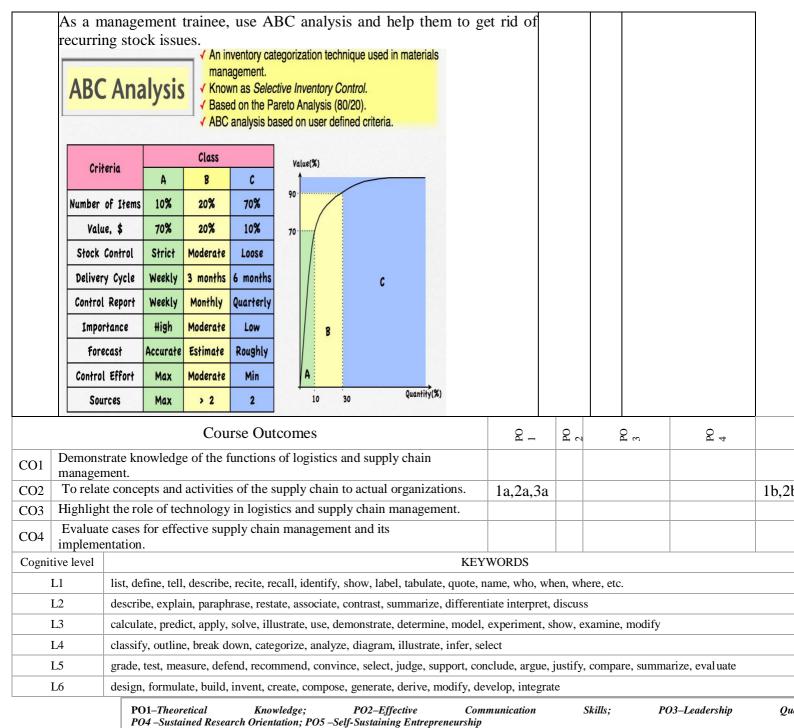
OBE

Marks CO RBT

| | Part A -Answer Any Two Full Questions (20*02=40 Marks) | | | |
|-----|--|------|-----------------|----|
| (a) | What is decoupling? | [03] | CO2 | L1 |
| | It allows economy of scale within a single facility and permits each | | | |
| | process to operate at maximum efficiency rather than having the speed of | | | |
| | the entire process constrained by the slowest. | | | |
| b) | Describe the functions of transportation. | [07] | CO ₂ | L2 |
| | Movement Of Goods | | | |
| | Easy Movement Of Labour | | | |
| | Control Of Price Hike | | | |
| | Profit Maximisation | | | |
| | Help In Mass Production | | | |
| | Extensive Market | | | |
| | Mobility of Labour and Capital | | | |
| | Specializations and Division of Labour | | | |
| | Economies of Large Scale Production | | | |
| | Stability in Prices | | | |
| | Benefits to Consumers | | | |
| | Employment Opportunities and Increase in the National Income | | | |
| | Discouragement to Monopoly | | | |
| | Development of Agriculture | | | |
| | Industrial Development | | | |
| | Increase in National Wealth | | | |
| (c) | Discuss ABC analysis and its importance. | [10] | CO2 | L2 |

BC ANALYSIS ABC ANALYSIS is an inventory management technique Follow below steps to categorize CATEGORIZATION that a company can use for the complete chain of materials the inventory. and distribution management. 1. Find annual consumption value 2. Calculate annual consumption CATEGORISATION OF INVENTORY value for all the items CATEGORY A: Highest value in terms of annual 3. Sort items based on values consumption. Includes 20% of product having value of 4. Calculate percentage inventory 70% to 80% value of each item. CATEGORY B: Medium consumption value goods. Finally, put the items under the relevant category. Includes 30% of product having consumption value of 5% to 10% CATEGORY C: Lowest consumption value. Includes 50% of the total inventory items, having value ranging from 5% to 10% Gives structured view of all inventory items · This requires extensive efforts to put items · Helps to control items, which require into each category. substantial working capital. · Only considers the financial value of items Save unnecessary staff and storage expenses ignoring the other factors Helps to keep track of the inventory and Company needs to have standardization for ensures optimum stock. the materials. Improves the stock turnover ratio · It does not support GAAP. 2(a) CO₂ [03] Define shipper and consignee. L1 Seller versus Buyer Seller Buyer Determinant of Title of Goods Directly related consignee field Optional versus Mandatory Mandatory Mandatory Hands out the goods to Receives the goods Position Against Goods the carrier from the carrier Explain lead time reduction strategies. [07] CO₂ 1.2 Create a Lead Time Contract With Every Supplier. Order Inventory More Often. Share Sales Data With Your Supplier. Automate Your Inventory Management. CO_2 Discuss the importance of inter-modal transportation. [10] Lower Cost Alternative to Truckload Sustainability Increased Level of Security Reduces Highway Congestion Reliable Capacity Optimizes the Efficiency of Truck and Rail Improves Safety

| Easy to Monitor | | | |
|---|------|-------|----|
| Define lead time. Lead time in inventory management is the amount of time between when purchase order is placed to replenish products and when the order received in the warehouse. Lead time is the time it takes to process an order and receive the shipment | is | CO2 | L1 |
| your products. | OI . | | |
| b) Describe the components of inventory decisions. Cycle inventory | [07] | CO2 | L2 |
| Average amount of inventory used to satisfy demand between shipments. | | | |
| • Depends on lot size. Safety inventory | | | |
| Inventory held in case demand exceeds expectations costs of carrying too much inventory versus cost of losing sales. Seasonal inventory | | | |
| Inventory Inventory built up to counter predictable variability in demand, cost of carrying additional inventory versus cost of flexible production | | | |
| Overall trade-off: Responsiveness versus efficiency More inventory: greater responsiveness but greater cost, Less inventory: lower cost but lower responsiveness | | | |
| c) Discuss the role of infrastructure in transportation. | [10] | CO2 | L2 |
| Transport infrastructure is one of the key factors on which country's grow | ⁄th | | |
| depends. The transport system is seen as the controller of the country's econom | ny | | |
| and offers a vital link between production and consumption. The amount | of | | |
| traffic moving on the roads of the country can demonstrate its progress. T | he | | |
| current transport system in India includes different modes such as rail, air, roa | ad, | | |
| and coastal shipping. Over the years, the transport has recorded a considerab | ole | | |
| growth in India both in terms of distance as well as the output of t | he | | |
| system. When the transportation developments increase the accessibility of public | lic | | |
| and businesses to reach the jobs, goods, services and activities, the productivi | ity | | |
| also increases. This rise may be due to transport infrastructure enhancements as | nd | | |
| decreased travel time. As the labor market temporarily is brought closer to the | eir | | |
| workplaces because of improved travel time, companies experien | ice | | |
| improvements in worker's productivity. Although India has a huge and diver | ese | | |
| transport industry with its own challenges, they are shifting to implement mo | ore | | |
| and more energy-efficient technologies and customer-centric approach. It won | n't | | |
| be wrong if we call it the 'lifeline' of a nation. | | | |
| Part B - Compulsory (01*10=10marks) | | | |
| The organization ABC is into production of shoes. They produce form shoes for army and to general public. They were facing problem wi | ith | G C E | |
| reference to stock out and more stock sometimes. | [10] | CO2 | L3 |



CCI HOD