**CMR** INSTITUTE OF **TECHNOLOGY** 





## IAT 1 Question Paper & Solution

Code: Sub: Logistics & SCM **20MBAMM402** 

Date: **09-06-2022** Duration: 90 mins Max Marks: 50 Sem: IV MBA Branch:

OBE

		Marks	CO	RBT
	Part A -Answer Any Two Full Questions (20*02=40 Marks)			
1(a)	<ul> <li>Define logistics.</li> <li>Logistics refers to the overall process of managing how resources are acquired, stored, and transported to their final destination.</li> <li>Logistics management involves identifying prospective distributors and suppliers and determining their effectiveness and accessibility.</li> <li>Logistics managers are referred to as logisticians.</li> </ul>	[03]	CO1	L1
	Summarize the functions of efficient warehouse management.  • Storage  • Safeguarding of Goods  • Movement of Goods  • Financing  • Value-added Services  • Price Stabilisation  • Information Management  • Other Functions.	[07]		L2
(c)	Discuss scope of supply chain.	[10]	CO1	L2
	Minimises Operating Cost			
	Boosts Customer Service			
	Enhance Financial Position			
	Manages Distribution			
	Bring coordination among partners			
	Inventory Management			
	Supplier Management			
2(a)	<ul> <li>What is warehousing?</li> <li>Warehousing is the process of storing goods which are to be distributed later.</li> <li>A warehouse is defined as any place which is used in the accumulation of goods.</li> </ul>	[03]	CO2	L1
(b)	Discuss the decision phases of supply chain.  1. Supply chain strategy or design  2. Supply chain planning  3. Supply chain operation.  1. Supply chain strategy or design  • Given marketing and Pricing plans.  • Decides how to structure the supply chain.  • Resources allocation.  • Outsource or Perform.  • Production, location, warehouse facilities.  • Modes of transportation.	[07]	CO1	L2

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Different shipping legs.			
Type of information systems.			
2. Supply chain planning			
Time frame considered is a quarter to a year.			
• Supply chain configuration determined in the strategic phase is fixed.			
• Goal is to maximize the supply chain surplus.			
• Forecasts, costs, prices, .			
Which market from which location.			
Subcontracting of manufacturing, inventory policies, the timing, size of			
marketing & price promotions.			
3. Supply chain operation			
• Goal is to handle incoming customer orders in the best possible manner.			
• Exploit the reduction of uncertainty and optimize performance.			
Allocate inventory or production, date to fulfill order, shipping mode, delivery			
schedule, replenishment orders.	[10]	COA	τ ο
(c) Describe advantages and importance of smart warehouse.	[10]	CO2	L2
Better Warehouse Optimization.			
Lower Operational Costs.			
Faster Picking and Shipping.			
Greater Accuracy in Warehouse Operations.			
Better Customer Service.			
Better Tracking of Assets and Inventory	[00]	CO 1	т 1
3(a) What do you mean by procurement logistics?	[03]	COI	L1
Procurement logistics is the sourcing of materials needed to manufacture			
<b>products</b> . In other words, this part of the supply chain focuses on purchasing raw			
materials, replacement parts, auxiliary supplies, operating supplies and other items			
needed for the manufacturing process to work.	[07]	CO 1	1.0
(b) Explain the different types of logistics.	[07]	CO1	L2
1. Inbound Logistics			
2. Outbound Logistics			
3. Reverse Logistics  4. Third Party Logistics (2DL Logistics)			
4. Third Party Logistics (3PL Logistics)  5. Fourth Party Logistics (4PL)			
5. Fourth Party Logistics (4PL)	[10]	CO2	L2
<ul> <li>(c) Explain the features of warehouse management system.</li> <li>The purpose of a WMS is to help ensure that goods and materials move</li> </ul>		COZ	LZ
through warehouses in the most efficient and cost-effective way.			
A WMS handles many functions that enable these movements, including			
inventory tracking, picking, receiving and putaway.			
• Inventory tracking, which enables the use of advanced tracking and automatic			
identification and data capture(AIDC) systems, including RFID and barcode			
scanners to make sure that goods can be found easily when they need to move.			
• Receiving and putaway, which allows inventory putaway and retrieval, often			
with <u>pick-to-light</u> or pick-to-voice technology to help warehouse workers			
locate goods.			
<ul> <li>Picking and packing goods, including zone picking, wave picking and batch</li> </ul>			
picking.			
Warehouse workers can also use lot zoning and task interleaving functions to			
guide the pick-and-pack tasks in the most efficient way.			
• Shipping, which enables the WMS to send bills of lading (B/L) ahead of the			
shipment, generate packing lists and invoices for the shipment and send			
advance shipment notifications to recipients.			
Labor management, which helps warehouse managers monitor workers'			

<ul> <li>performance by using key performance indicators (KPIs) that indicate workers who perform above or below standards.</li> <li>Yard and dock management, which assists truck drivers coming into a warehouse to find the right loading docks.</li> <li>A more complex use of yard and dock management enables cross-docking and other functions of inbound and outbound logistics.</li> <li>Reporting, which helps managers analyze the performance of warehouse</li> </ul>			
operations and find areas to improve.  Part B -			
Dhawan a start up owner, who is into vegan milk production in the city. He has thoroughly understood the need of the product and target segment in the city. Identified retailers across geographies in Bengaluru.  1. Being a management trainee apply cycle view of supply chain and help him to design his efficient supply chain.	[10]	CO1	L6
Cycle View of Supply Chain Process  Customer Order Process  Customer Order Entry Customer Order Cycle Customer Order Fullfillment Customer Order Receiving  Replenishment Cycle Replenishment Cycle Replenishment Cycle Replenishment Cycle Replenishment Process 1. Retail Order Trigger 2. Retail Order Entry 3. Retail Order Fullfillment 4. Retail Order Fullfillment 4. Retail Order Receiving			
1. Order Arrival 2. Production Scheduling 3. Manufacturing/Shipping 4. Receiving Procurement Process			

		Course Outcomes	P 0 1	9 0 с	О О	O P	Д O г
CO1		strate knowledge of the functions of logistics and supply nanagement.	1a, 3a	1b, 1c 3b,3c		4	
( ( ( ) / )		ate concepts and activities of the supply chain to actual cations.	2a	2b, 2c			
CO3	Highlig manage	ght the role of technology in logistics and supply chain ement.					
CO4		ate cases for effective supply chain management and its nentation.					
	nitive evel	KEYWORDS					
L1		list, define, tell, describe, recite, recall, identify, show, label, tabulate, quote, name, who, when, where, etc.					
L2		describe, explain, paraphrase, restate, associate, contrast, summarize, differentiate interpret, discuss					
L3		calculate, predict, apply, solve, illustrate, use, demonstrate, determine, model, experiment, show, examine, modify					t,

L4	classify, outline, break down, categorize, analyze, diagram, illustrate, infer, select
L5	grade, test, measure, defend, recommend, convince, select, judge, support, conclude, argue, justify, compare, summarize, evaluate
L6	design, formulate, build, invent, create, compose, generate, derive, modify, develop, integrate

PO1–Theoretical Knowledge; PO2–Effective Communication Skills; PO3–Leadership Qualities; PO4 –Sustained Research Orientation; PO5 –Self-Sustaining Entrepreneurship

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