

INDIAN INSTITUTE OF MATERIALS MANAGEMENT Post Graduate Diploma in Materials Management Graduate Diploma in Materials Management PAPER No. 11 (New)

Dec 2015

LOGISTICS MANAGEMENT

Date Time		m.			Max. Marks Duration	s :100 : 3 Hrs.	
<u>Instrue</u> 1. PA 2. Fro	Total marks = 32 Total marks = 48						
 PART C is Case Study and is compulsory. Answer the questions reflecting through understanding of the case. Total marks = 20 Please read instructions on the answer sheet carefully. 							
			<u>PART A</u>			32x1 = 32	
mark		npulsory- Attemp	t all Questions ea	ach question carries	1 mark)		
Q1. S	itate TRUE or FALSE	- 1 Mark each			(8 Marks)		
2 3 4 5 6 7	Material handling is a Operating areas of log Inbound logistics mea Variance is unexpecte Supply buffer manage MTS and ATO strateg ISCM is processes the Hub and Wheel conce	gistical system a ins movement of ed event that dis ement does not r lies postpone pro at are internal to	re not affected b materials receiv rupts performance nanage variation oduction. the firm.	ed from suppliers. e of the system. s in demand.			
Q2. F	ill in the Blanks - 1 M	ark each			(8 Marks)		
 Direct mixed shipment reduces cost. warehouse stocks product combination in anticipation of customer orders. In break bulk warehouse operation no is involved. warehouse charges client a basic fee for handling and storage. Goods received are entered into consignment register. In-transit brings economics when plants are geographically separated. Stockpiling provides an inventory cranes are used for overhead material handling. 							
Q3. E	expand the following a	abbreviations (1	mark each)		(8 Marks)		
	1. CTR 5. FTL	2. JIT 6. SRM	3. MTS 7. LTL	4. TQM 8. 3PL			

Q4. Match the following in column A with those in column B - 1 Mark each

(8 Marks)

	Column A	Column B		
Р	Auto Identification System	Α	Vehicle space utilization	
Q	Retail stores	В	Water transport	
R	Automatic identification method	С	Humanlike machine	
S	Towline	D	Point of Sale	
Т	Robotics	E	RFID	
U	Stowability	F	Continuous movement	
V	Refilling	G	Bar Codes	
W	Canoe	Н	Metal cylinders	

Write any three (3) of the following questions – 16 marks each

PART - B

(48 Marks

Q5. What is logistics? Explain the concepts, activities and importance of logistics.

Q6. Explain the supply chain relationship, capacity buffer, inbound and outbound logistics.

Q7. Explain the concepts of warehousing, spot stock, pre and post distribution.

Q8. Explain physical distribution tasks and approaches in detail.

Q9. Describe the different levels of functionality of logistics information and explain satellite communication and intranet.

Q. 10. CASE STUDY

Whirlpool Corporation is the world's leading manufacturer and marketer of major home appliances, with annual sales over \$19 billion, more than 80,000 employees and more than 60 manufacturing and technology research centers globally. Consumers around the world enjoy Whirlpool's innovative products marketed under Whirlpool, Maytag, Kitchen Aid, Jenn-Air, Amana, Brastemp, Bauknecht and other major brand names. With this varied inventory, plus a large direct sales force in more than 170 countries and an unpredictable sales cycle, effective supply chain management is critical for continued growth. Whirlpool has not always considered logistics a competitive advantage. However, since naming Penske as lead logistics supplier, Whirlpool experienced cost savings, increased customer satisfaction and found a partner to help integrate the recent acquisition of Maytag.

Challenges

• To effectively leverage its supply chain to maximize cost savings, while also positively influencing the overall Whirlpool customer experience

• To swiftly and efficiently integrate Maytag operations

Solutions

• Through the Penske/Whirlpool lead logistics provider (LLP) relationship, Penske assumed responsibility for execution and management of third party logistics providers (3PLs), and provided an enhanced ability to view each supplier's key performance indicators integrated with financials

• Penske built a new routing tool specifically for Whirlpool that offered overall cost optimization and mode selection

• Penske helped to integrate Maytag operations through consolidating Local Distribution Center (LDC) networks, optimizing routing of Regional Distribution Center (RDC) shipments, determining optimal fleet size and operating network, combining co-located Maytag and Whirlpool RDC locations and integrating the Hi/Lo network to improve product availability and fill rates

Questions

Analyze the above case study and prepare a detailed note of your understanding about the case study and suggest the ways about further logistical operations impartments.
