

INDIAN INSTITUTE OF MATERIALS MANAGEMENT Post Graduate Diploma in Materials Management - 3 years Graduate Diploma in Materials Management PAPER No. 11

July 2019

LOGISTICS MANAGEMENT

Date Time		: 26.07.2 : 10.00 a.		1.00 p.m.					Max. Marks Duration	:100 : 3 Hrs.
 Instructions: PART A is compulsory. Answer all questions. From PART B, answer any three questions. Each question carries 16 marks PART C is Case Study and is compulsory. Answer the questions reflecting through understand 								Total marks = 32 Total marks = 48 ling of the case		
					,	1	3		Total mar	ks = 20
4. P	lease	e read instr	uctions	on the ansv	wer shee	t carefully.				
			,	0 1 -	844		ART A		(32x1 = 32	marks)
			•	-	ory- Att	empt all Quest	ions each q	uestion carries 1	•	
Q1.	1. State TRUE or FALSE :-								8 Ma	rks
	a) Inbound Logistics + Material Management + Physical Distribution = Logistics.									
	b) The product / material flow in a supply chain is concerned with the procurement, but does no include movement and storage of materials and finished products.								out does not	
	c) In break bulk warehouse operations storage is involved.									
	d) There are three common methods of physical stock verification.									
	e) Right deliveries ratio = No of deliveries on time / year Total No of deliveries / year									
	f) Zero Level Channels has multiple intermediaries.									
	g) Freight Elevator is a device used for lifting or lowering a load by means of a drum or lift-wheel around which rope or chain wraps.							-wheel		
	h)	Water T	ranspo	rt is the	oldest n	node of transp	ort.			
Q 2	. w	/rite full	form o	f followi	ing abb	reviations :-			8 Ma	rks
	i)	LTL	ii)	SWC	iii)	ASRS	iv)	EDI		
	v)	UPC	vi)	WMS	vii)	FDI	viii)	ВТО		
Q 3.	. Fil	ll in the l	olanks	:-					8 Ma	rks
а	ı) <u>.</u>					ceiving goods ting them in st		or and shipping o	out through the	e other door
b	b) The primary objectives of any supply chain management are									
c	c) is the designing and managing of a system in order to control the flow of material throughout a corporation.							of a system in or	der to control t	the flow of

d)	cross docking is receiving multiple vendors and sorting onto outbound trucks for different stores.
e)	warehouses are designed to handle bulk material including non-food and also liquid products.
f)	To transport material from one fixed point to another fixed point are used.
g)	The type of transport has the highest fixed cost but lowest variable cost among transport modes.
h)	Logistics Information Systems Flow has modules.

Q 4. Match Column A with correct responses from Column B:-

8 Marks

	Column A	Column B		
1.	Multimodal Transportation Act	Α	2007	
2.	New Product Development, Material Management & Manufacturing & Distribution	В	1925	
3.	Warehousing (Regulation and Development) Act	С	1986	
4.	Carriage by Air Act	D	1988	
5.	Carriage of Goods By Sea Act	Е	1993	
6.	Consumer Protection Act	F	1972	
7.	Indian Customs Act	G	1962	
8.	Motor Vehicles Act	Н	Forward Logistics	

PART - B

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

(48 Marks)

- **Q. 5** Explain in detail the different types of material handling equipments.
- **Q. 6** Explain in detail about Transport Infrastructure.
- **Q. 7** "Physical distribution system should function efficiently. Efficiency is the ratio of output to input". In the light of this statement, indicate the various parameters of efficiency. Indicate atleast two measuring productivity ratios in physical distribution management.
- Q. 8 Explain Fourth Party Logistics (4PL).

Q. 9 Write Short Notes (Any Four) – ($4 \times 4 = 16$ Marks)

- (a) Transport Functionality and Transport Principles.
- (b) Scope of Reverse Logistics.
- (c) Product Recall.
- (d) Channel Flows with flow process.
- (e) Logistical Organisational Structure.
- (f) Functionality aspects of Technology for Logistics.

PART - C

(20 Marks)

Q. 10. CASE STUDY (compulsory)

M/s XYZ Ltd., is a liquor company which has about 150 stores in France and is the country's largest privately owned retailer of wine, liquor, gourmet food and cigars. XYZ features over 4,000 wines and a complete selection of both rare and popular spirits. All the 150 locations are supported by their 180000 Sq. ft distribution centre in Paris.

<u>Situation</u> - XYZ Ltd., documented wants and needs for their operation to be more efficient. XYZ wanted to reduce breakage on the conveyor system, increase bottle picking efficiency, eliminate hand-scanning of products and develop a safer way to clear jams on the conveyor.

<u>Assessment</u> – Value Cargo Logistics collaborated with XYZ Ltd., to develop a feasible plan of action to achieve the set goals as pointed above. With the current distribution centre already in place, the solution had to utilize the space available.

In view of the above, you are requested to respond to the below mentioned queries:

Questions: $(4 \times 5 = 20 \text{ Marks})$

- (a) What probable solution could be arrived at to reduce the breakage and increase bottle picking efficiency?
- (b) How do you think the hand-scanning of products can be eliminated and what is the solution available?
- (c) How can the jams on the conveyor belts be cleared in a safest possible manner?
- (d) What results do you expect to achieve in the long run?