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ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)
B.E. / B. Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, NOV / DEC 2024
Department of Industrial Engineering
V and VII Semester
IE5017 & Logistics, Warehouse and EXIM Management
(Regulation 2019)

Time: 3hrs

Max.Marks: 100

CO 1	To develop an understanding of the role and importance of logistics to achieve competitiveness
CO 2	To impart knowledge on Packaging and Containerization
CO 3	To familiarizes about the warehouse functions, types and principles
CO 4	To impart knowledge on warehouse operations and Material handling equipment's
CO 5	To give exposure on Export and Import Procedures

BL – Bloom's Taxonomy Levels

(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing, L5 - Evaluating, L6 - Creating)

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

Q. No	Questions	Marks	CO	BL
1	Define logistics and differentiate it from Supply chain	2	CO1	L1
2	What are the 6 R's for the efficient performance of any logistics system?	2	CO1	L2
3	What is the main reason for packaging and labelling to be done at the end of the assembly line?	2	CO2	L2
4	List different international and national logistics services offered by CONCOR	2	CO2	L1
5	List out the difference between the private and public warehousing	2	CO3	L1
6	How the Walmart has used the concept of "Cross Docking "with great efficiency and effectiveness in transporting goods to its national chain of discount stores?	2	CO3	L4
7	State the difference between the LIFO and FIFO method of material management in ware house	2	CO4	L2
8	Define industrial shelving and industrial scales	2	CO4	L1
9	Write short noted on IMO and IATA	2	CO5	L2
10	Electronic Data Interchanges will not deliver strategic benefit to EXIM company- Comment on it	2	CO5	L2

PART- B (5 x 13 = 65 Marks)

(Restrict to a maximum of 2 subdivisions)

Q. No	Questions	Marks	CO	BL
11 (a) (i)	Draw the scientific diagram for the key components of logistics management system and explain in detail the total logistics activities	8	CO1	L1
(ii)	Compare 3PL with 4PL	5	CO1	L1
OR				
11 (b) (i)	What are the various modes of transportation?	7	CO1	L1

(ii)	How would you Select a mode of transport?	6	CO1	L1
12 (a) (i)	Write a detailed note on primary, secondary and tertiary packaging and what are their functions?	7	CO2	L3
(ii)	What are the different reasons that insurance companies have to pay damages during transit of goods? How does good packaging eliminate them?	6	CO2	L3
OR				
12 (b) (i)	Explain the term Container Freight station (CFS) and describe the facilities provided by the CFS.	6	CO2	L3
(ii)	Elaborate the Organizational structure of CONCOR and emphasis the support for CONCOR for international logistics.	7	CO2	L3
13 (a) (i)	Explain the various economical function of warehousing with an application of examples.	5	CO3	L3
(ii)	Consider the location of a new plant which will supply raw materials to a set of existing plants in a group of companies. Let there are 5 existing plants which have a material relationship with the new plant. Let the existing plants have location of (400,200) (800,500) (1100,800) (200,900) and (1300,300). Furthermore, suppose that the number of tons of materials transported per year from the new plant to various existing plants are 450,1200,300,800 and 1500 respectively. Determine their optimal location for the new plant such that the distance moved is minimized	8	CO3	L3
OR				
13 (b) (i)	What are the strength and weakness of a centralized warehouse over decentralized warehouse?	7	CO3	L3
(ii)	List out the factors to be consider for design of warehouse infrastructure.	6	CO3	L3
14 (a) (i)	Analyse the different types of metrics to measure the warehouse efficiency	8	CO4	L4
(ii)	Write a short note on logistics in the warehouse	5	CO4	L4
OR				
14 (b) (i)	Describe the different types of loading and unloading equipment's in a warehouse operation	7	CO4	L4
(ii)	Explain storage types and storage unit management	6	CO4	L4
15 (a)	What is documentation in EXIM context? Describe the pre shipment and post shipment documents in details	13	CO5	L3
OR				
15 (b)	Draw the overview of international logistics flow of cargo from exporter premises to importer premises and brief explain those phases.	13	CO5	L3

PART- C (1 x 15 = 15 Marks)
(Q.No.16 is compulsory)

Q. No	Questions	Marks	CO	BL
16. (i)	Compare the forward and reverse logistics with detail	7	CO1	L5
(ii)	How will you identify and classify materials and products in the warehouse? and discuss the management of material turn in the warehouse	8	CO4	L5