

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
FOURTH TRIMESTER MBA DEGREE EXAMINATION(R&S), NOVEMBER 2019

**Course Code: OMT406**

**Course Name: LOGISTICS AND MATERIAL HANDLING**

Max. Marks: 60

Duration: 3 Hours

**PART A**

*Answer all questions. Each question carries 2 marks*

Marks

**Write short note on:**

- |   |  |     |
|---|--|-----|
| 1 | Logistics value chain advantage  | (2) |
| 2 | Cross docking.   | (2) |
| 3 | Uses of bar coding in logistics  | (2) |
| 4 | Difference between Inter-modal freight transport and Multi-modal transportation. | (2) |
| 5 | Any two advantages and disadvantages of cranes in a warehouse                    | (2) |

**PART B**

*Answer any three questions. Each question carries 10 marks.*

- |    |  |      |
|----|--|------|
| 6  | Elucidate the different components of logistics management.  | (10) |
| 7  | Explain the economic and operational functions of a warehouse.   | (10) |
| 8  | Explain any three Information technology solutions in logistics with their advantages and disadvantages.   | (10) |
| 9  | You are the logistics manager of a transportation company. You need to transport the following items from Mumbai to Chennai.<br>a. TVs   b. Rice   c. Fish   d. Flowers   e. Petroleum<br>Choose the appropriate transportation mode and state your reasons for choosing the mode. | (10) |
| 10 | Perform the ABC analysis on the following items in inventory and interpret the analysis  | (10) |

Items	1	2	3	4	5	6	7	8
Annual usage	300	700	40	900	50	220	160	1100
Cost/Rs	500	5,000	1,000	10,000	900	5,500	700	15,000

### PART C

*Compulsory Question. The question carries 20 marks.*

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#### Case study

(20)

Electric cars got their start more than 100 years ago in Europe. At first, they were more popular than gasoline-powered cars. They became less popular as gasoline became cheaper and more available. The first big manufacturer of electric cars in North America was General Motors. These cars lasted a short time and became the subject of the popular movie, *Who Killed the Electric Car?* In the last decade, large steps have been made in electric car development. Now all major car manufacturers have launched or plan to launch prototype cars. The success of Toyota's Prius (which combines electric and gas in a hybrid vehicle) has increased interest in more fully electric cars, called Plug In Hybrid Electric Vehicles (PHEV). Many car companies are now moving to fully electric cars. Examples include Nissan's LEAF, Mitsubishi's iMieV, Ford's Focus BEV, and Think's City, which all reach highway speeds of 100 kilometers per hour. The world's most popular electric car—REVAi or

G-wiz—reaches speeds of 80 km per hour. Low speed vehicles such as ZENN (Zero Emissions No Noise) and IT (Dynasty) offer more affordable cars that reach speeds of 40 to 55 km per hour. Drivers of electric vehicles avoid the cost of gasoline, which is expected to continue rising. People like the energy efficiency, extremely low maintenance costs, and very small carbon footprint of electric vehicles. Electric vans are also becoming popular in cities as a way to ship goods from depots to stores.

- a. What are the different challenges and opportunities you foresee in the future for electric vehicles? (10 marks)
- b. What are the initiatives required to make electric vehicles popular? (10 marks)

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