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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
(ONLINE)
SEMESTER I
SESSION 2020/2021**

COURSE NAME : SUPPLY CHAIN MANAGEMENT
COURSE CODE : BPB 32303
PROGRAMME CODE : BPB
EXAMINATION DATE : JANUARI / FEBRUARY 2021
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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- Q1 (a)** The design of a transportation network affects the performance of a supply chain by establishing within which operational decisions regarding scheduling and the routing are made.

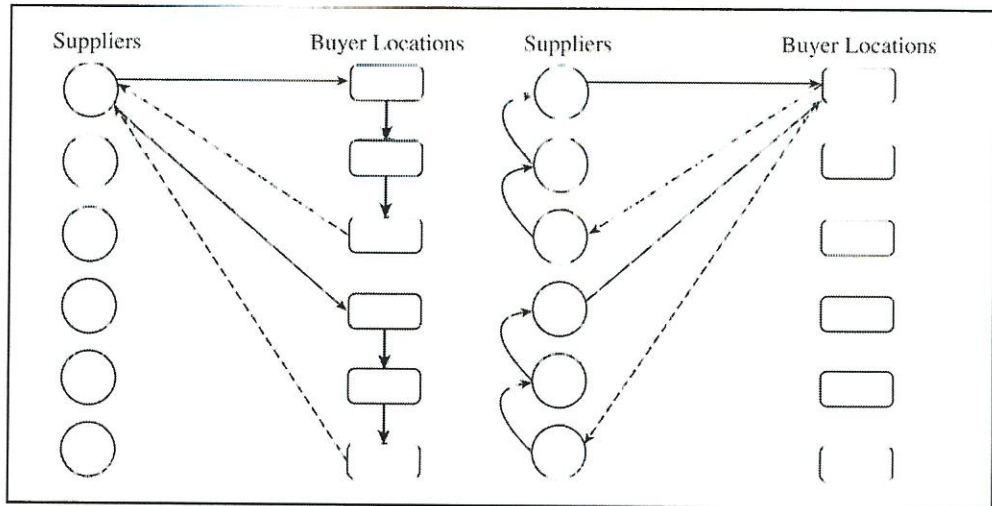


Figure Q1: Direct Shipping with Milk Runs

As shown in **Figure Q1**, Direct Shipping with Milk Runs is one of a variety of transportation networks.

- (i) Outline the system works Direct Shipping with Milk Runs in transportation networks. (5 marks)

- (ii) Propose **TWO (2)** benefits of using Direct Shipping with Milk Runs against others transportation network. (8 marks)

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- (b) Speed Mart has eight stores in Kluang district supplied from four supply sources. Trucks have a capacity of 40,000 units and cost RM1,000 per delivery. The cost of holding one unit in inventory at retail for a year is RM0.20. Each delivery is considered Full Truck Load (TL) and using 'Direct Shipment Network'. If annual sales for each product at each retail store are 960,000 units;

Analyze:

- (i) Number of deliveries per year from each supplier to each store. (4 marks)
- (ii) Annual trucking cost from one source to eight stores for direct network. (4 marks)
- (iii) Annual trucking cost from all sources to all stores for direct network. (4 marks)

Q2 Sourcing decisions is to enable managers to consider all the trade-offs involved to maximize value extracted from every stage of a sourcing relationship

- (a) Discuss **FIVE (5)** factors other than quoted price that must be considered when making sourcing decisions. (10 marks)
- (b) Elaborate **THREE (3)** benefits of effective sourcing decision and give an example of each trait. (15 marks)

Q3 Company A and Company B need to prepare a Sustainability Report of their organization. The report presents the commitment of an organization to a sustainable global economy. Company A reports only energy consumption within its own operations, and then decides to outsource some production to an offshore supplier. While company B decides to bring some production in-house and onshore.

- (a) Discuss **THREE (3)** categories of sustainability measurement relates to the scope over which a supply chain measures. (6 marks)

(b) Analyze **TWO (2)** issues relate to sustainability report of each company based on the case in **Q3**. (10 marks)

(c) Explain **THREE (3)** scopes across supply chain which all metrics are measured based on The Greenhouse Gas Protocol. (9 marks)

Q4 (a) Define bullwhip effect. (5 marks)

(b) State **FIVE (5)** managerial levers to achieve coordination in supply chain. (10 marks)

(c) Outline the situation of improper structured incentives that lead to a lack of coordination in the supply chain. (10 marks)

-END OF QUESTIONS-

