

ADMISSION NUMBER									

School of Business

**Integrated Bachelor of Business Administration - Master of Business Administration
Semester End Examination - Nov 2023**

**Duration : 180 Minutes
Max Marks : 100**

Sem IX - MBOP6007 - Supply Chain and Logistics Management

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) List three potential benefits of implementing short-term discounting for a business. K1 (2)

- 2) Explain how does supply uncertainty affect the level of safety inventory in a supply chain? Provide four specific examples to illustrate the impact. K2 (4)

- 3) Explain the process of trade-offs in transportation design when considering a centralized versus decentralized distribution network. K2 (6)

- 4) Provide a detailed analysis of how sourcing decisions can influence supply chain resilience during times of disruption, using real-world examples. K3 (9)

- 5) Identify & explain the critical role of sourcing in a supply chain and its impact on overall supply chain performance. K3 (9)

- 6) Mr. Beautiful, an organization that sells weight training sets, has an ordering cost of \$40 for the BB-1 set. (BB-1 stands for Body Beautiful Number 1.) The carrying cost for BB-1 is \$5 per set per year. To meet demand, Mr. Beautiful orders large quantities of BB-1 seven times a year. The stockout cost for BB-1 is estimated to be \$50 per set. Over the past several years, Mr. Beautiful has observed the following demand during the lead time for BB-1. The reorder point for BB-1 is 60 sets. What level of safety stock should be maintained for BB-1? K5 (10)

DEMAND DURING LEAD TIME	PROBABILITY
40	.1
50	.2
60	.2
70	.2
80	.2
90	.1
	1.0

- 7) Examine the factors that influence a company's decision to choose between a third-party logistics (3PL) provider and a fourth-party logistics (4PL) provider for their supply chain management. K4 (12)
- 8) Evaluate the key criteria and methods used in the supplier selection process. Discuss the importance of supplier evaluation and how it contributes to effective procurement strategies. K5 (15)

VENDOR 1		VENDOR 2	
QUANTITY	PRICE/LB	QUANTITY	PRICE/LB
1-499	\$17.00	1-399	\$17.10
500-999	16.75	400-799	16.85
1000+	16.50	800-1199	16.60
		1200+	16.25

- 9) Evaluate the impact of IT-enabled purchasing on the procurement process. Discuss the benefits and challenges associated with the adoption of IT in purchasing. K5 (15)
- 10) Design a decision support system (DSS) tailored for supply chain management (SCM). Explain the key features and functionalities of the DSS, and discuss how it can aid supply chain managers in making strategic decisions. K6 (18)