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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute Affiliated to AKTU, Lucknow)

MBA MF

SEM: IV - THEORY EXAMINATION (2025 - 2026)

Subject: Marketing Analytics

Time: 3 Hours

Max. Marks: 100

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C**. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.

2. Maximum marks for each question are indicated on right -hand side of each question.

3. Illustrate your answers with neat sketches wherever necessary.

4. Assume suitable data if necessary.

5. Preferably, write the answers in sequential order.

6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION-A

20

1. Attempt all parts:-

- | | | |
|-------|--|---|
| (1.1) | State how often market sizing should be updated. (CO1 - K1) | 1 |
| | (a) Annually or as market changes | |
| | (b) Every decade | |
| | (c) Once | |
| | (d) Never | |
| (1.2) | Identify a key output of marketing analytics for market sizing. (CO1 - K1) | 1 |
| | (a) Addressable market estimate | |
| | (b) Product design | |
| | (c) Employee training | |
| | (d) Legal compliance | |
| (1.3) | Describe how to avoid a price war. (CO2 - K1) | 1 |
| | (a) Differentiate product | |
| | (b) Match lowest price always | |
| | (c) Reduce quality | |
| | (d) Exit market | |
| (1.4) | Define optional product pricing. (CO2 - K1) | 1 |
| | (a) Base product low and add-ons high | |
| | (b) All products same price | |
| | (c) Only base product sold | |
| | (d) All products free | |
| (1.5) | Describe how GDP affects sales forecasting. (CO3 - K1) | 1 |

(a)	Higher GDP often increases sales	
(b)	Higher GDP decreases sales	
(c)	No effect	
(d)	GDP unrelated	
(1.6)	Define forecast bias. (CO3 - K1)	1
(a)	Systematic over- or under-prediction	
(b)	Random error	
(c)	Seasonal error	
(d)	Trend error	
(1.7)	Define cross-selling. (CO4 - K1)	1
(a)	Selling additional products to existing customers	
(b)	Selling to new customers	
(c)	Discounting products	
(d)	Returning products	
(1.8)	Explain why retention is more profitable than acquisition. (CO4 - K1)	1
(a)	Existing customers have higher CLV and lower cost	
(b)	Existing customers pay less	
(c)	Existing customers complain more	
(d)	Existing customers buy less	
(1.9)	Define up-selling in retail. (CO5 - K1)	1
(a)	Selling a higher-value product	
(b)	Selling a cheaper product	
(c)	Selling a return	
(d)	Selling a gift	
(1.10)	Define monetary score in RFM. (CO5 - K1)	1
(a)	Score based on total money spent	
(b)	Score based on purchase count	
(c)	Score based on recency	
(d)	Score based on location	

2. Attempt all parts:-

(2.1)	Explain how macroeconomic factors affect market sizing. (CO1 - K2)	2
(2.2)	State why predatory pricing is illegal. (CO2 - K2)	2
(2.3)	Describe how to handle missing data in forecasting. (CO3 - K2)	2
(2.4)	Describe how to segment customers by CLV. (CO4 - K2)	2
(2.5)	Explain how to choose minimum support threshold. (CO5 - K3)	2

SECTION-B

30

Answer any one of the following:-

(3.1)	Explain the importance of geographic segmentation in market sizing. (CO1 - K2)	6
(3.2)	Explain how to present market sizing results to stakeholders. (CO1 - K2)	6

Answer any one of the following:-

(3.3)	Explain why airlines use price discrimination. (CO2 - K2)	6
(3.4)	Explain the ethics of personalized pricing. (CO2 - K2)	6
Answer any one of the following:-		
(3.5)	Explain objectives of sales forecasting with suitable examples. (CO3 - K2)	6
(3.6)	Describe how to use exponential smoothing for short-term forecasts. (CO3 - K3)	6
Answer any one of the following:-		
(3.7)	Explain how to use RFM scores to predict churn. (CO4 - K2)	6
(3.8)	Describe the limitations of simple CLV formula. (CO4 - K2)	6
Answer any one of the following:-		
(3.9)	Define bundle pricing. Explain how to use Market Basket Analysis for bundle pricing. (CO5 - K2)	6
(3.10)	Explain how to use Market Basket Analysis for store layout. (CO5 - K2)	6
SECTION-C		50
4. Answer any <u>one</u> of the following:-		
(4.1)	Conduct a PESTLE analysis for market sizing of a renewable energy startup. (CO1 - K4)	10
(4.2)	Simulate a market sizing exercise for a food delivery service in a new tier-2 city. (CO1 - K3)	10
5. Answer any <u>one</u> of the following:-		
(5.1)	Define price war. Discuss disadvantages of price war. (CO2 - K2)	10
(5.2)	Apply psychological pricing to a retail store's product list. (CO2 - K3)	10
6. Answer any <u>one</u> of the following:-		
(6.1)	Discuss qualitative methods of demand forecasting.. (CO3 - K2)	10
(6.2)	Analyze how to forecast for a product with strong seasonality and irregular promotions. (CO3 - K4)	10
7. Answer any <u>one</u> of the following:-		
(7.1)	Define customer retention. Design a retention strategy for low-CLV customers. (CO4 - K6)	10
(7.2)	Apply STP framework to a retail brand using CLV approach. (CO4 - K3)	10
8. Answer any <u>one</u> of the following:-		
(8.1)	Define cross-selling. Explain advantages of cross-selling for a bank. (CO5 - K2)	10
(8.2)	Propose a real-time recommendation system using association rules. (CO5 - K6)	10