	Thirc	VPM's DR VN BRIMS, Programme: MMS I Semester Regular Exami	(2023-25)	24		
Course Name:		Marketing Analytics	Course Code	M-311		
Roll No.			Marks	60		
Total No. of Questions		6	Duration	3 Hours		
Total No pages	o. of printed	3	Date	10-12-2024		
case stur CO4: Ex analysis, CO5: Ev media m CO6. De insights f	dies to analyze mark amine descriptive ar to derive actionable aluate the effectiven arketing analytics. sign a comprehensiv or real-world applica	nd predictive analytics metho insights. ess of marketing strategies ve marketing analytics frame	ods, including clusterin	ng and ma ibility anal s digital ai	rket basl ysis and nd social	ket social media
Instructions: - Q. No 1 (All Questions are Compulsory)			Marks	BL	СО	
Q. No.		Questions				
Q. 1		Case/Case-let Study				
	consumer p development explores the conducted to Taste, and P for a specifi insights that offerings to n The study ut multiple reg objective wa preference a analysis are	etitive landscape of food pro- references is crucial for and marketing strategies e findings of a multiple assess how three key factor reservation Quality—affect of c food product. The analy can guide food companies neet consumer demands. ilized a sample of 40 obser ression analysis using E s to quantify the relationship and the identified factors. presented in three main IOVA, and Coefficients.	successful product s. This case study regression analysis s—Nutritional Value, consumer preference sis aims to provide s in enhancing their vations to perform a Excel. The primary between consumer The results of the			

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		Regression Statistics			
		Multiple R 0.927517			
		R Square 0.860287			
		Adjusted R			
		Square 0.848645			
		Standard Error 0.699212			
		Observations 40			
		Table 1			
		ANOVA			
		df SS MS F Significance F			
		Regression 3 108.3747 36.1249 73.8906 0.00   Residual 36 17.6003 0.488897			
		Total 39 125.975			
		Table 2			
		Standard			
		Coefficients Error t Stat P-value			
		Intercept 0.732929 0.300923 2.435601 0.019948			
		Nutrition Value0.2946580.1028492.8649470.00692Taste0.1704570.1030211.654590.106702			
		Preservation Quality 0.548192 0.117648 4.659579 0.00			
		Table 3			
	a.	Based on the regression analysis results, <b>examine</b> the relative influence of each factor (Nutritional Value, Taste, and Preservation Quality) on consumer preference. Provide a detailed breakdown of the statistical significance of each variable as indicated by their p-values.	6	Level 4	CO4
	b.	Critically <b>assess</b> the implications of the findings for food product development. Considering the significant influence of Nutritional Value and Preservation Quality on consumer preference, what recommendations would you propose for a food company looking to enhance its product offerings? Justify your recommendations based on the statistical evidence provided in the analysis, and discuss potential challenges the company may face in implementing these changes.	6	Level 5	CO5
Q. 2		Answer <b>Any one</b> from the following.			0.0
	a.	<b>Evaluate</b> the effectiveness of key performance indicators (KPIs) in measuring the success of a digital marketing campaign. Justify your assessment by comparing at least two KPIs and their impact on achieving campaign objectives.	6	Level 5	CO5
	b.	<b>Evaluate</b> the role of the Chi-Square Test in verifying the independence of variables in market research studies. Discuss its advantages and potential drawbacks.	6	Level 5	CO5

Q. 3		Answer Any one from the following.			
	a.	<b>Analyze</b> the impact of the time period selected for a moving average on the accuracy of demand forecasting. How does varying the period affect results?	6	Level 4	CO4
	b.	<b>Distinguish</b> between exploratory factor analysis (EFA) and confirmatory factor analysis (CFA). How does each approach contribute to understanding data structure?	6	Level 4	CO4
Q. 4	.4 Answer Any two from the following.				
	a.	<b>Utilzing</b> the CLTV data, how would you decide which group of customers to target with a special discount offer?	6	Level 3	CO3
	b.	<b>Build</b> a conjoint analysis model to analyze customer preferences for a new service package. What attributes would you include in the analysis, and how would you interpret the results?	6	Level 3	CO3
	C.	<b>Develop</b> a strategy based on margin analysis to increase profitability for a company that is experiencing low profit margins. What actions would you recommend based on the cost structure and pricing?	6	Level 3	CO3
Q. 5		Answer <b>Any two</b> from the following.			
	a.	<b>Explain</b> how Google Analytics tracks website traffic and user behavior. How does it differentiate between direct, organic, and referral traffic sources?	6	Level 2	CO2
	b.	<b>Describe</b> how conjoint analysis helps businesses understand consumer preferences. What role do different attributes (e.g., price, features, brand) play in determining customer choices?	6	Level 2	CO2
	C.	<b>Explain</b> how market basket analysis identifies patterns in customer purchasing behaviour. How do association rules like "If a customer buys X, they are likely to buy Y" work in this context?	6	Level 2	CO2
Q. 6		Answer <b>Any two</b> from the following.			
	а.	What is the primary goal of cluster analysis in data analysis?	6	Level 1	CO1
	b.	<b>What</b> is the main purpose of discriminant analysis in statistical modelling?	6	Level 1	CO1
	C.	What is the meaning of the term "margin of safety" in margin analysis?	6	Level 1	CO1