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		Question Paper Co	de	12310]			<u> </u>				
	MBA - DEGREE EXAMINATIONS, NOV / DEC 2023														
		Third	Semest	er											
		Master of Busine	ess Adn	IINI ATN	stra JUNI	tion ~									
		(Regulat	ions 202	20)	1111	J									
Duration: 3 Hours Max Max											Marl	cs: 10	00		
$PART - A (10 \times 2 = 20 Marks)$ Answer ALL Questions															
1.	Def	fine various types of data.										Ma K-Lev 2,K1	r ks, v el, CO ',CO1		
2.	Ent	erprise Data Mode- Describe.										2,K1	,CO1		
3.	List	t out any two advantages of data mi	ning.									2,K1,CO2			
4.	Def	fine the term Data mining.										2,K1,CO2			
5.	List	t out the assumptions and limitation	ns of ass	ocia	ate r	ule r	nini	ing.				2,K1	,CO3		
6.	Def	fine Decision Tree with a suitable e	xample.									2,K2	,CO3		
7.	Explain Market basket analysis.								2,K2,CO4						
8.	Stat	te Application of cluster analysis.										2,K1	,CO4		
9.	Hov	w to data mining application used in	n Retail	ingʻ	?							2,K2	,CO5		
10.	Mention any two benefits data mining application in Banking sector.									2,K1	,CO5				
		PART - B (5 ×	13 = 65	5 M	ark	s)									
11.	a)	Answer AL Briefly explain about Enterprise C	LL Ques Concepti R	ation	1s Mod	el.						13,K	.2,CO1		
	b)	Discuss in detail about the adv Model.	antages	of	En	terpr	rise	Su	bject	A	rea	13,K	2,CO1		
12.	a)	Classify the Data Mining system.	R									13,K			
	b)	Discuss the advantages and disad	vantage	s of	Dat	ta M	inin	ıg.				13,K	:2,CO2		
13.	a)	Write short notes on a) KDD, b). (O)	CRISP o R	:) D	М, о	d) SI	EMI	MA				13,K	2,CO3		
	b)	Describe any four Challenges of I	Data mir	ing								13,K	2,CO3		
14.	a)	Explain Apriority algorithms for generation.	r freque	ent	iten	n set	t us	sing	can	did	ate	13,K	2,CO4		

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 1 12310

	b)	OR Describe the requirement of clustering in data mining.	13,K2,CO4			
15.	a)	Explain the role of data mining application in Banking sector.				
	b)	List different views to design a data mining application in Genetics.	13,K2,CO5			

PART - C (1 × 15 = 15 Marks) (Case Study - Compulsory)

AVIVA Retail, a prominent player in the retail sector, is confronted 15,K3,CO5 16. a) with significant challenges in optimizing its customer loyalty programs. The company is acutely aware of the potential benefits that data mining tools and techniques could bring to augment customer satisfaction and loyalty. However, a series of issues are impeding the efficacy of their current approaches. One prominent challenge AVIVA faces revolves around the accuracy of customer segmentation. Despite utilizing demographic data and purchase history, the current methods fall short in precisely categorizing its diverse customer base. This inadequacy results in loyalty programs that lack the personalization needed to resonate with specific customer preferences, hindering the overall effectiveness of targeted initiatives. Another critical issue centers on the suboptimal effectiveness of promotions. AVIVA struggles to design and execute promotions that genuinely drive customer engagement. The current strategies lack the necessary precision to target the right products to the right customers, ultimately leading to a suboptimal return on investment. The company is keen on enhancing its promotional strategies to not only maximize engagement but also elevate overall customer satisfaction. Furthermore, AVIVA is grappling with limited cross-selling opportunities. Despite the aspiration to recommend complementary products to customers, the existing market basket analysis and association rules are falling short in identifying meaningful patterns in customer purchasing behavior. This limitation significantly constrains AVIVA's ability to capitalize on potential revenue streams through strategic cross-selling endeavors.

Question:

How might AVIVA leverage advanced data mining techniques to refine its customer segmentation methods and overcome challenges associated with demographic data?