(3 Hours)

(Total Marks: 80)

N.B.	1. Ques	tion 1 is compulsory	
	2. Atter	mpt any three questions out of the remaining five questions	
Q.1	(a)	Give any two techniques of data preprocessing	(5)
	(b)	Explain Confusion matrix with one example	(5)
	(c)	Give the steps of K means clustering algorithm	(5)
	(d)	Explain concept hierarchy with example	(5)
Q.2	(a)	Write a short note on Naïve Bayesian classification	(10)
	(b)	Explain bagging technique	(10)
Q.3	(a)	Explain density based clustering	(10)
	(b)	What do you mean by outlier? Give the types of it.	(10)
Q.4	(a)	Explain market basket analysis	(10)
	(b)	Explain how the efficiency of Apriori algorithm is improved	(10)
Q.5	(a)	Suppose a group of 12 sales price records has been stored as follows:	(10)
		30, 36, 47, 50, 52, 52, 56, 60, 63, 70, 70, 110	
		Find mean, median, mode, inter quartile range (IQR)	
	(b)	What is BI? Define decision support system.	(10)
Q.6	(a)	What is an attribute? Explain its types.	(10)
	(b)	Explain the knowledge discovery process with diagram	(10)

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