		Duration: 3hrs [Max Marks: 80]	550
NI D			
N.E	5. :	(1) Question No 1 is Compulsory.	
		(2) Attempt any three questions out of the remaining five.	
		(3) All questions carry equal marks.	
		(4) Assume suitable data, if required and state it clearly.	
1	Α	ttempt any FOUR	[20]
	A		[20]
	В	Data: 4, 8, 15, 21, 21, 24, 25, 28, 34	
		Divide data in 3 bins (equal frequency) and perform smoothing by bin means	
		and smoothing by bin boundaries on every bin	
	C	How to calculate correlation coefficient for two numeric attributes and also	
		comment on the significance of this value	
	D	Write a short note on support and confidence	
	E	Explain the concept of information gain which is used in decision tree	
		algorithm?	
2	A	Describe any two methods of data reduction	[10]
	В	Compare star schema, snowflake schema and fact constellation	[10]
3	A	Write and explain Bayes classification algorithm	[10]
	В	Write the steps of Ada-boost algorithm	[10]
4		How is data mining used in Business Intelligence?	[10]
	В	Give the overview of partition clustering methods	[10]
_	~ \$		
5	A	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[10]
J. F.	В	Explain OLAP operations with the examples	[10]
6	A	Describe the classification performance evaluation measures that are obtained	[10]
		from confusion matrix?	
	В	Use the normalization methods to normalize the following group of data:	[10]
		200, 300, 400, 600,1000	
		Use min-max normalization by setting $min = 0$ and $max = 1$ and z-score normalization	

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