-	-	T.E. Se	m VI	TTo
	7	Paper / Subject Code: 89381 / Data Mining & Business Intelligence	20/2	10/8×
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1.,			5	age.
		F ( ) S S	1957	12
		Duration: 3hrs [Max Marks: 80	1	S 5
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			35	, FD.
V	I.B.	(1) Question No 1 is Compulsory.	.0	5
		(2) Attempt any three questions out of the remaining five.	100	500
		(3) All questions carry equal marks.	7.0×.	5
		(4) Assume suitable data, if required and state it clearly.	· .	2. 2
		2, 3, 2, 3, 5, 5, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	(202	125
	1 .	Attempt any FOUR	[20]	
	F	Draw a three tier data warehousing architecture	2	1
	E	Data : 4 9 15 21 21 24 25 28 34	3	
		Divide data in 3 bins (equal frequency) and perform smoothing by bin means	100	
		and smoothing by bin boundaries on every bin  How to calculate correlation coefficient for two numeric attributes and also		-
	C	comment on the significance of this value	S	A. 1
	Γ	Write a short note on support and confidence		3
	E			
		algorithm?		
			[10]	
2	2 A	Describe any two methods of data reduction	[10]	
	В	Compare star schema, snowflake schema and fact constellation		
3		Write and explain Bayes classification algorithm	[10]	
	B	**************************************	[10]	
			£1.03	
4	A	How is data mining used in Business Intelligence?	[10]	
	В	Give the overview of partition clustering methods	[10]	
		ct. improve the officiency of Apriori based mining?	[10]	
5		How can we further improve the efficiency of Apriori-based mining? Explain OLAP operations with the examples	[10]	
	В	Explain OLAP operations with the examples		
	٨	Describe the classification performance evaluation measures that are obtained	[10]	
0	A	from confusion matrix?	1 500 175	
	B	Use the normalization methods to normalize the following group of data:	[10]	
	1	200 300 400 600.1000		
0		Use min-max normalization by setting min = 0 and max = 1 and z-score		
		normalization		
	0			
	Carl.			