09/05/2025 MCA SEM-I (NEP-2020) ADMS QP CODE: 10082226

Time: 2 Hours Total Marks: 50

Note:	Que	stion number Q1 is compulsory mpt any two questions out of Q2 to Q5	Marks	Course Outcome	Bloom's Level BL				
Q1	Atter	npt following questions.	£ 6						
	a.	How would you compare OLAP and OLAP.	[05]	CO2	BL1				
	b.	How would you describe Data reduction techniques?	[05]	CO4	BL1				
	c.	How would you compare OODBMS and ORDBMS	[05]	CO1	BL2				
	d.	Explain Page Rank algorithm	[05]	CO5	BL1				
			30	45	45				
Q2	a. 5	Describe Hierarchical Clustering and explain different types of it in your own words?	the [08]	CO4	BL2				
15.	b.	Describe the Knowledge Discovery in Databases (KDD) process and explain the purpose of each of its steps in your own words	s? [07]	CO4	BL3				
?'	4	18, 12, 12, 12, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	15	96,					
Q3 100 110 110 110 110 110 110 110 110 11	ca.	Apply Apriori algorithm to the following data set to find out strong association rule with Support= 50% and Confidence=70%.  Trn. Item purchased No  1 Mask, Sanitizer, Hand wash, Soap 2 Mask, Sanitizer, Hand wash 3 Mask, N95, crayons	[08]	CO3	BL3,BL4				
55	200	4 Mask, Hand wash, N95 5 Sanitizer, Hand wash, N95			BL2				
\$ 100 m	b.	How do the Star Schema, Snowflake Schema, and Fact Constellation Schema differ in terms of structure, data organization, and query performance.							
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## Paper / Subject Code: N20131 / Advanced Databased Management System

Q4	a.	Can you con explain the in your over	e main c wn words	omponen s?	[08]	CO2	BL2			
	<b>b.</b>	Generates for the given (k=2). Co for two clubrates are is defined	ven datas nsider P usters re dean dis =(x1, y1)	set using I 1 and P2 a spectively tance fund and $b=0$	[07]	CO4	BL3,BL4			
		450	p1 p2 p3	Wt 1 2 2	Ht 2 3 3	- 10 th 10 th	Sep. C	A STATE OF S	45 45 45 45 45 45 45 45 45 45 45 45 45 4	
	4	5010	p4	2	4			67 6455	S. S	
Q5	a.	Explain d Database	ifferent A	Architectu	[08]	CO1	BL2			
25	b.	What is Decision tree? Describe how the ID3 algorithm uses information gain to construct a decision tree.								
.6	7	5	90,		45,	301	5	S.		

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