## B.E. (Computer Technology) Eighth Semester (C.B.S.) Data Warehousing & Mining

P. Pages : 2 Time : Three Hours			$\begin{array}{c} \mathbf{TKN/KS/16/} \\ \mathbf{W} \\ * \\ 0 \\ 4 \\ 3 \\ 5 \\ \end{array} \\ \mathbf{Max. Mar} \end{array}$			
	Note	s: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions. Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of neat	t sketches.		
1.	a)	Explain	three tier architecture of data warehouse.	(	6	
	b)		OLAP? Define following with example : DLAP ii) MOLAP iii) HOLAP <b>OR</b>	7	7	
2.		CT, IT, of stude	e RTMNU in the centralized system is given to you and six branch ECE, ETRX and MECH are the items of that system. The measure ents passed and no. of students placed. Design star Schema, snow instellation schema of the above said system. (Assume suitab	ing factors are no. wflake schema &	3	
3.	a)		re major components of a typical data mining? Draw architecture and explain it.	of data mining 7	7	
	b)	What is in short.		Transformation 7	7	
4.	a)	Address interacti	<b>OR</b> s all the issues in data mining regarding data mining methodology ion.	and user 7	7	
	b)	Describe discover	e the steps involved in data mining when viewed as a process of k ry.	mowledge 7	7	
5.	a)	Discuss	typical requirements of clustering in datamining.	5	5	
	b)	-	DBSCANLA Density Based clustering method which is based on s with sufficiently High density.	n connected 8	8	
6.	a)		<b>OR</b> o you mean by hierarchical clustering approach? Explain agglome hierarchical clustering.	erative and 7	7	
	b)	Explain Grid)	Grid – based clustering approach by considering STING (Statisti	cal Information	6	

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7.	a)	What do you mean by mining frequent patterns, Associations & correlations? Elabor giving examples.	
	b)	Explain Apriori Algorithm in detail. <b>OR</b>	8
8.	a)	How FP growth algorithm works? Explain.	7
	b)	Explain how efficiency of Apriori algorithm can be improved?	7
9.	a)	Explain Web Mining in detail.	6
	b)	Describe various Graph properties of Web.	7
10.	a)	OR How to access accuracy of text retrieval in text mining system?	5
	b)	Explain Spatial Data Mining in detail.	8
11.	a)	Explain the concept of Big Data Problem.	6
	b)	What are the available various Big Data Managements technologies? Explain in detail.	7
12.	a)	<b>OR</b> Write about various practical applications of next generation data mining.	5
	b)	<ul> <li>Write short note on :</li> <li>i) Big Data Technology &amp; Tools.</li> <li>ii) Map Reduce Paradigm.</li> </ul>	8

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