B.E. (Information Technology) Seventh Semester (CBS) Data Warehousing & Mining

	Pages: ne: Thr	2 ee Hour		AHK/KW/19/2346 Max. Marks : 80	
	Note	s: 1.	All questions carry marks as indicated.		
		2.	Solve Question 1 OR Questions No. 2.		
		3.	Solve Question 3 OR Questions No. 4.		
		4.	Solve Question 5 OR Questions No. 6.		
		5.	Solve Question 7 OR Questions No. 8.		
		6.	Solve Question 9 OR Questions No. 10.		
		7.	Solve Question 11 OR Questions No. 12.		
		8.	Illustrate your answers whenever necessary with the help of neat sketches.		
1.) a)	Define	Decision Support System (DSS). What are the failures of pass-DSS.	6	
15	b)	Explai	n three tier architecture of Data warehouse with neat sketch.	5 7	
			OR		
2.	a)	Differe	entiate between	6	
-			Data warehouse and Data Mart.		
			perational Database system and Decision support system.		
	b)	What i	s Data Mart? Give it's types and How it differs from data warehouse.	7	
			V (37.70)		
3.	a)	Find		6	
		i) M	fean		
		ii) Si	tandard deviation.		
		iii) M	fin-Max normalization.		
		iv) Z	-score normalization		
		For the	e following data-set		
		30, 36,	, 47, 52, 52, 56, 60, 70, 70, 110.		
	b)	What i	is data reduction? Explain different methods of data reduction.	7	
			OR C		
4.	a)	How d	ata cleaning can be handled in preprocessing?	6	
	b)	What a	are the major tasks of Data preprocessing? Explain in brief.	7	
5.	a)	Descri	be STAR and SNOWFLAKE Schema with example.	7	
	b)	Differe	entiate between OLAP and OLTP.	-	
			OR		
6.	a)	What i	is data cube? Explain the operations of OLAP with example.	27	

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	b)	Write any seven characteristics of OLAP.	7
70	37	(2)	12
1	(a)	Describe the classification of Data mining system.	7
	b)	What are the various issues in Data mining.	6
		OR 5	
8.	a)	Explain architecture of data Mining-System.	7
	b)	Differentiate between clustering and classification.	6
9.	a)	Explain Market basket analysis.	6
	b)	Explain how frequent item set are generated using Apriori algorithm.	7
		OR	
10.	(a)	Explain various kinds of association Rule mining.	7
	b)	Explain Advantages and disadvantages of FP-growth tree.	6
11.	a)	Describe architecture of Hadoop ecosystem.	7
	b)	Draw and explain map reduction technique with example.	7
		OR OR	
12.	a)	Explain two Approaches in development of BI system.	7
	b)	Write short note on BI frame work 2020.	7
		5	