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

P. Pages : 2 Time : Three Hour		NRT/KS/19/35 Max. Marks :		
Not	es: 1.	Solve Question 1 OR Questions No. 2.		
	2.	Solve Question 3 OR Questions No. 4.		
	3.	Solve Question 5 OR Questions No. 6.		
	4.	Solve Question 7 OR Questions No. 8.		
	5.	Solve Question 9 OR Questions No. 10.		
	6.	Solve Question 11 OR Questions No. 12.		
1. a)	Differe	ntiate between.	8	
വ)	i) D	ata warehouse and data mart.		
(6)	ii) O	perational Database system and Decision support system.		
b)	Explain	three tier architecture of Datawarehouse with neat diagram.	6	
		OR S		
2. a)	E-1	data warehouse is an environment, not a product. Give the desired features of new environment.	6	
b)		o you mean by strategic Information? Explain the factor that escalated the need for c information.	8	
3. a)	What is	the need of data preprocessing. Explain in brief?	5	
b)	What a	re the measures of data dispersion.	4	
c)	What is	s data reduction? Explain different methods of data reduction.	4	
		OR (15)		
4. a)	Explain	MIN-MAX normalization and Z-score normalization with example.	6	
b)	Write r	note on discretization and concept Hierarchy Generation.	7	
5. a)	What is	s OLAP? Discuss basic operations of OLAP with example.	8	
b)	Differe	ntiate between OLTP and OLAP.	6	
		OR		
6. a)	Describ	be STAR and snowflake schema with example.	8	
10)			3	
(b)	Differe		6	
		OLAP.		
		OLAP		
	iii) H	OLAP.		

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7.	a)	Explain KDD process. Draw the architecture.	50
	b)	Differentiate between clustering & classification?	9/4
	c)	Discuss various issues in data mining.	4
		OR (
8.	a)	Explain the application of data mining at least two in details.	8
	b)	Describe the classification of data mining system.	5
9.	a)	Explain market basket analysis in detail with example.	7
	b)	Explain the procedure to generate association rules from frequent itemset.	6
	33	OR OR	
(C)). a)	Explain how frequent itemsets are generated using Apriori algorithm.	7
	b)	Explain Advantages and disadvantages of FP-growth tree.	3
	c)	Write note on closed itemsets.	3
11	١.	Define Big data & its challenges in details. Explain ecosystem of Hadoop in depth.	13
		(5) OR	
12	2. a)	Write short note on BI framework 2020.	7
	b)	Explain two Approaches in development of BI system.	6
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