B.E. (Information Technology) Seventh Semester (C.B.S.)

Data Warehousing & Mining

P. Pages: 2 NRJ/KW/17/4637 Max. Marks: 80 Time: Three Hours Notes: 1. All questions carry marks as indicated. 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. 7. Solve Question 11 OR Questions No. 12. Explain three tier architecture of data warehouse with neat diagram. 7 1. a) b) What do you mean by strategic Information Explain the factor that escalated the need for 6 strategic information. OR 2. Explain life cycle of Data Ware House with neat sketch. 7 a) Differentiate between. 6 b) Data Ware House and Data Mart. i) Operational DB system and Decision support system. ii) 3. Summarize the data preprocessing steps in brief. 7 a) What is data reduction? Explain different methods of data reduction. b) 6 OR 4. a) Explain MIN-MAX normalization and Z-score normalization. 6 What is Data cleaning? Explain different methods of Data cleaning. 7 b) 5. What is OLAP? Discuss basic operations of OLAP with example. 8 a) b) Define the following. 6 **ROLAP** ii) MOLAP iii) HOLAP i) OR 6. Differentiate between OLTP and OLAP. 6 a) Describe STAR and SNOWFLAKE scheme with example. 8 b) 7. a) Draw and explain Knowledge Discovery process. 8 What are the various issues in Data mining. b) 6 OR

8.	a)	Describe the classification of Data mining systems.	8
	b)	Explain the application of Data Mining in.i) Market Research.ii) Healthcare Industry.	6
9.	a)	Explain how frequent Itemsets are generated using A priori Algorithm.	7
	b)	Define following Terms. i) Frequent Itemset. ii) Closed Itemset. iii) Association Rules.	6
		OR	
10.	a)	Explain market Basket Analysis in Detail.	7
	b)	Explain How support and confidence is used to find out Association rules.	6
11.	a)	Define Big Data. State its challenges.	5
	b)	Describe the architectural component of Hadoop ecosystem.	8
		Explain How support and confidence is used to find out Association roles. Define Big Data. State its challenges. Describe the architectural component of Hadoop ecosystem of Hadoop ecos	
12.	a)	Draw and explain map reduction technique with Example.	10
	b)	Write a note on important factors of BI.	3
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