BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCI		SEMESTER : II SESSION : SP/2022	
TIME:	SUBJECT: CS539 DATA MINING AND DATA WAREH 3 HOURS	DUSING FULL MARKS: 50	
INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.			
Q.1(a) Q.1(b)	What is Data Mining? Differentiate between Data Characterization and How does Data Mining work as a step in the process of Knowledge Disc		
Q.2(a) Q.2(b)	What is Entity Identification problem? Explain. How redundancies of nominal data are handled using correlation an numerical example.	[5] halysis? Discuss it using suitable [5]	
Q.3(a)	i) Min-Max normalization ii) z-score Normalization	[5]	
Q.3(b)	Discuss any two heuristics for attribute subset selection in data reduct	ion process. [5]	
Q.4(a) Q.4(b)	Explain Various OLAP operations used in Cubes. Discuss any two data models used for designing Datawarehouse using	[5] suitable examples. [5]	
Q.5(a) Q.5(b)	How to generate FP tree for frequent itemset mining? Explain with sui What is Apriori Property? How it helps in improving the computationa Frequent Pattern mining? Explain.		

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