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AG	No: 117CD  JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABA  B. Tech IV Year I Semester Examinations, April/May - 2018  DATA WAREHOUSING AND DATA MINING  (Computer Science and Engineering)  Max. Max. Max. Max. Max. Max. Max. Max.	AG	A
Note:	This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part B consists of 5 Units. Answer any one full question from each unit. Each carries 10 marks and may have a, b c as sub questions.  PART A	question	A
1.a) b) c) d) e) f) g) h) i)	List out the operations of OLAP. What is fact table? Write its uses. Define discretization. What is predictive mining? Explain it briefly. Write the purpose of Apriori algorithm. Define support and confidence measure. What is boosting? Define decision tree. Write the strengths of hierarchical clustering. Compare agglomerative and divisive methods.	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	A
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2.a) b)	With a neat sketch, Explain three tier architecture of data ware housing.  Explain various data warehouse models.  OR	[5+5]	
3. AG	Write a note on a) Relational OLAP b) Multi-dimensional OLAP.	[5/45]	A
4.a) b)	Discuss in detail about the steps of knowledge discovery? Write a note on subset selection in attributes for data reduction.  OR	[5+5]	
5.a) b) 6.a) b)	Explain various data mining tasks.  Discuss briefly about data cleaning techniques.  Write FP growth algorithm.  Explain how association rules are generated from frequent item sets.  OR	[5+5] [5+5]	A
7.a) b)	Explain the procedure to mining closed frequent data item sets.  Explain, how can you improve the performance of Apriori algorithm.	[5+5]	
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