R19

Code No: 5658AH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M. Tech I Semester Examinations, July/August - 2021

DATA MINING

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five questions All questions carry equal marks

1.a) b)	Discuss about classification of data mining systems. Is data mining a multi disciplinary field? Justify you answer.	[8+7]
2.	Use a flowchart to summarize the following procedures for attribute subset selection as combination of forward selection and backward elimination.	tion: [7+8]
3.a) b)	Differentiate between operational database systems and data warehouse. How are concept hierarchies useful in OLAP?	[7+8]
4.a) b)	Explain 'data cube as a lattice of cuboids'. How does the star-cubing algorithm use star tree to compute an iceberg cube.	[7+8]
5. 6.a)	What are the limitations of Apriori algorithm? How can you further improve the of Apriori based mining? What is vertical data format? What are its advantages?	efficiency [15]
b)	Discuss the role of binning in mining quantitative association rules.	[8+7]
7.	Explain basic algorithm for decision tree induction and the need of attribute measures in this algorithm.	e selection
8.	How does DBSCAN algorithm discover arbitrary shaped clusters with hig Explain with an example.	h density? [15]

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