R16

Code No: 137BQ

Time: 3 Hours

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2021

DATA MINING

(Common to CSE, IT)

Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

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1.a) b) 2.	How to handle redundancy in data integration? Explain principal component analysis as a method of dimensionality reduction. How can we mine closed frequent item sets? Explain.	[7+8] [15]
3.	Explain market basket analysis and its relevance to association rule. Explain the algorithm using the following transactional data assuming that the support cour	ne Apriori nt is 22%.
3 F	Illustrate with an example. TID LIST OF ITEMS 001 milk, dal, sugar, bread 002 Dal, sugar, wheat ,jam	8,5
	Milk, bread, curd, paneer Wheat, paneer, dal, sugar Milk, paneer, bread Wheat, dal, paneer, bread.	[15]
3 - 4. 5.	Discuss K- Nearest neighbor classification-Algorithm and Characteristics. How Neural Networks can be used for Data classification? Which algorithm i Explain them with example?	[15] is suitable? [15]
6.	Explain various issues and challenges in data mining.	[15]
7.a) b)	Describe web usage mining. Explain about Text Clustering with an illustrative example.	[7+8]
8.a) b)	Write and explain about the k-medoids algorithm. Describe distance based outlier detection.	[8+7]

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