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Question Paper Code: 99209

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

		Computer Scien	ice and Engineering									
		19UCS909	9- Data Mining									
		(Régula	ations 2019)									
Duration: Three hours Maximum: 100 Mark												
		Answer A	LL Questions									
PART A - $(5 \times 1 = 5 \text{ Marks})$												
1.	1. Strategic value of data mining is											
	(a) Cost-sensitiv	e	(b) Work-sensitive									
	(c) Time- sensiti	ve	(d) Technical- sensitive									
2.	2. If T consist of 500000 transactions, 20000 transaction contain bread, 30000 CO2- Aptransaction contain jam, 10000 transaction contain both bread and jam. Then the support of bread and jam is											
	(a) 2%.	(b) 20%	(c) 3%.	(d) 30%.								
3.	Which of the following criteria is not used to decide which attribute to split next in a decision tree: (a) Gini index (b) Information gain (c) Entropy (d) Scatter											
4.		by K-means clustering?	` '	(a) Seatter	CO1- U							
	(a) defined distant	-	(b) number of clusters(d) all of the above		001 0							
5.	Data mining can	be used to improve			CO1- U							
	(a) Efficiency	(b) Quality of data	(c) Marketing	(d)All of the	above							
$PART - B (5 \times 3 = 15 \text{ Marks})$												
6.	State the various	s issues in data mining?			CO1- U							
7.	What is meant by constraint based mining?											
8.	8. What is rule based classification? How the rule is assessed?											
9. State the various requirements of clustering												

$PART - C (5 \times 16 = 80 \text{ Marks})$

11. (a) Draw the architecture and describe the steps involved in data CO1-U (16) mining when viewed as a process of knowledge discovery.

Or

(b) Explain the process of data cleaning.

CO2-U (16)

12. (a) Explain various kinds of Association Rules Mining

CO1- U (16)

Or

(b) Describe efficient and scalable frequent item set using candidate CO1- U generation Mining Methods. (16)

13. (a) Explain with an example how classification is done using decision CO1- U tree induction method. (16)

Or

(b) Illustrate with an example how classification is done using CO1-U (16) Bayesian classification method.

14. (a) Explain different types of data used in cluster analysis & Explain CO1- U the K-Means partitioning method (16)

Or

(b) Explain the various methods for detecting outliers

CO1- U (16)

(16)

(16)

15. (a) Discuss about Text Mining

CO1- U

Or

(b) Explain how data mining is used in health care analysis

CO1- U