Department of Computer Science

Unit wise Question Bank

DATA MINING (CS4102PC)

IV B.TECH ,I SEM

UNIT-I

S.No		Questions PART -A	BT	CO	PO
1		What is Data Mining?	L2	CO1	PO1
2		What is KDD process?	L1	CO1	POI
3		Explain Data cleaning method.	L1	CO1	PO1
4		What is Data Preprocessing?	L1	CO1	PO1
5		What is data reduction?	L1	CO1	PO1
6		Draw a neat diagram of Data Mining architecture.	L2	CO1	PO1
7		List different types of Data Mining tasks.	L2	CO1	PO1
8		Deference between Data cleaning and Data	L2	CO1	PO1
9		Reduction.	L2	CO1	PO1
10		Explain data transformation method.	L2	CO1	PO1
PART-B					
11	a)	What is KDD process? Explain with neat diagram.	L2	CO1	PO1
	b)	Explain the Noisy and missing data.	L3	CO1	PO1
12	a)	What is data mining? Explain architecture of data Mining.	L3	CO1	PO1
	b)	Explain Dimensionality reduction process with diagram.	L2	CO1	PO1
13	a)	Explain the following: a. Data cleaning	L2	CO1	PO1
	b)	Data transformation	L2	CO1	PO1
14	a)	Explain different types of data preprocessing Techniques.	L1	CO1	PO1
	b)	Explain in detail about measures of similarity and Dissimilarity.	L4	CO1	PO1
15	a)	Discuss about the following: a. missing data	L2	CO1	PO1
	b)	Dimensionality Reduction	L3	CO1	PO1

UNIT– II

S. No	Questions PART-A	BT	CO	PO
1	How the Association rule is helpful to growth of business.	L2	CO2	PO1
2	What are disadvantages of Apriori Algorithm?	L2	CO2	PO2
3	What is market basket analysis? Explain.	L2	CO2	PO1
4	Discuss the applications of association analysis.	L2	CO2	PO3
5	What are the advantages of FP-Growth algorithm?	L1	CO2	PO1
6	Write a step by step process of FP Growth Algorithm.	L2	CO2	PO2
7	Write about basic concept in Association Rule Mining.	L2	CO2	PO1

8		Explain the process of Apriori Algorithm.	L2	CO2	PO3
9		What are the advantages and disadvantages of ECLAT algorithm?	L3	CO2	PO9
10		Explain the process of ECLAT algorithm.	L2	CO2	PO9
PART-B					
11	a)	Explain about the Apriori algorithm for finding frequent item sets with an example.	L2	CO2	PO1
	b)	Write a step by step process of Apriori algorithm.	L3	CO2	PO2
12	a)	Discuss about basic concepts of frequent item set mining.	L2	CO2	PO1
	b)	Write the advantages and disadvantages of Apriori Algorithm.	L4	CO2	PO3
13	a)	Write about basic concept in Association Rule Mining.	L3	CO2	PO9
	b)	Can we overcome the draw backs of Apriori algorithm? Discuss.	L4	CO2	PO9
14	a)	Explain the following: a. Frequent item set.	L3	CO2	PO10
	b)	Closed Frequent item set	L2	CO2	PO8
15	a)	What are the drawbacks of Apriori Algorithm? Explain.	L4	CO2	PO10
	b)	Write a FP Growth Algorithm and explain.	L2	CO2	PO8

UNIT–III

S.No	Questions PART-A	BT	CO	PO
1	What is difference between classification and prediction?	L1	CO3	PO1
2	What is Bayes theorem? Explain.	L2	CO3	PO2
3	Write a note attribute selection measures.	L2	CO3	PO1
4	what is prediction?	L2	CO3	PO3
5	Discuss about Naïve Bayesian Classification.	L2	CO3	PO9
6	Draw the structure of Decision tree with example.	L3	CO3	PO9
7	Explain Baysain belief network.	L2	CO3	PO10
8	Discuss about Accuracy and Error measures.	L2	CO3	PO8
9	What is classification? Explain.	L2	CO3	PO10
10	What are the uses of classification technic?	L4	CO3	PO8

PART-B					
11		Describe the data classification process with a neat diagram. How does the Naive Bayesian Classification works? Explain.	L4	CO3	PO1
12	a)	Describe the data classification process with a neat diagram.	L2	CO3	PO2
	b)	How does the Naive Bayesian Classification works? Explain.	L4	CO3	PO1
13	a)	Write and explain about Classification by Back propagation Algorithm.	L2	CO3	PO3
	b)	What is Bayesian belief network? Explain in detail.	L3	CO3	PO9
14	a)	Write a note attribute selection measures.	L2	CO3	PO9
	b)	Explain decision tree induction algorithm for classifying data tuples and discuss suitable Example.	L4	CO3	PO10
15	a)	Explain construction of decision tree with example.	L3	CO3	PO8
	b)	Describe the data classification process with a neat diagram. How does the Naive Bayesian Classification works? Explain.	L3	CO3	PO8

UNIT– IV:

S.No	Questions PART-A	BT	CO	PO
1	Explain about Types of Data in Cluster Analysis?	L1	CO4	PO1
2	Differentiate between AGNES and DIANA algorithms.	L2	CO4	PO2
3	Write a K-means clustering algorithm.	L3	CO4	PO1
4	Explain Grid based clustering methods.	L2	CO4	PO3
5	Write the key issue in hierarchical clustering algorithm.	L2	CO4	PO4
6	What is the use of clustering?	L1	CO4	PO1
7	Explain inter clustering.	L3	CO4	PO2
8	What is clustering? How it is useful to business.	L1	CO4	PO1
9	Explain un supervised data.	L2	CO4	PO3
10	What is intra clustering?	L2	CO4	PO9
PART-B				
11	a) Classify various Clustering methods.	L3	CO4	PO1

	b)	Write any one Partitioning based clustering methods.	L2	CO4	PO2
12	a)	What is the goal of clustering? Explan.	L3	CO4	PO1
	b)	How does partitioning around medoids algorithm achieve this?	L4	CO4	PO3
13	a)	Explain the following: a) Density based clustering methods	L3	CO4	PO9
	b)	Grid based clustering methods.	L1	CO4	PO9
14	a)	Give a brief note on PAM Algorithm.	L1	CO4	PO10
	b)	What is the drawback of k-means algorithm? How can we modify thealgorithm to diminish?	L4	CO4	PO8
15	a)	What is outlier detection? Explain distance based outlier detection.	L2	CO4	PO10
	b)	Write partitioning around mediods algorithm.	L4	CO4	PO8

UNIT-V

S.No		Questions PART -A	BT	CO	PO
1		What is web mining?	L2	CO1	PO1
2		What is Text mining?	L1	CO1	POI
3		Explain text clustering.	L1	CO1	PO1
4		What is web content mining?	L1	CO1	PO1
5		Describe hierarchy of categories	L1	CO1	PO1
6		Difference between web mining and text mining.	L2	CO1	PO1
7		Explain the different data mining methods.	L2	CO1	PO1
8		What is the use of Text mining?	L2	CO1	PO1
9		Explain types of text mining.	L2	CO1	PO1
10		Explain applications of web mining.	L2	CO1	PO1
		PART-B			
11	a)	Discuss about the Web mining	L2	CO1	PO1
	b)	Write note about the web content mining.	L3	CO1	PO1
12	a)	Explain in detail about text mining.	L3	CO1	PO1
	b)	What is Text clustering? Explain in details.	L2	CO1	PO1
13	a)	What is mining? Explain web structure mining.	L2	CO1	PO1
	b)	Explain how data mining is useful to Data Science.	L2	CO1	PO1
14	a)	Explain the following: a) Unstructured text	L1	CO1	PO1
	b)	Hierarchical categories.	L4	CO1	PO1
15	a)	Discuss about the episode rule discovery for texts.	L2	CO1	PO1
	b)	Explain how data mining is useful to Data Science.	L3	CO1	PO1

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