Department of CSE

B. Tech. Mid Question Bank (R20 Regulation)

Academic Year: 2024-25

Semester: VII

Subject Name: DATA MINING

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PART-A

Q.No	Questions	Marks	BL	CO	Unit No
1	Define data mining.	2	BL1	CO1	1
2	What is meant by outlier analysis?	2	BL1	CO1	1
3	Define maximal frequent item set.	2	BL1	CO1	1
4	What types of data to be mined?	2	BL1	CO1	1
5	Why patterns are interested?	2	BL1	CO1	1
6	Explain types of integration schemas.	2	BL2	CO1	1
7	How to compute confidence of an	2	BL1	CO2	2
	association rule? Give example.				
8	What is meant by test data?	2	BL1	CO2	2
9	Describe constraint -based association	2	BL4	CO2	2
	mining.				
10	Explain types of association rules in data	2	BL2	CO2	2
	mining.		- C		
11	What is SPM?	2	BL1	CO2	2
12	Determine State classification problem.		1		
13	Explain the major steps of decision tree	2	BL1	CO3	3
	classification.	A. B.	a mu	110	
14	What is rule based classification?	2	BL5	CO3	3
15	Define Bayes theorem?	2	BL2	CO3	3
16	What is the significance of information	2	BL1	CO3	3
	gain?				
17	What is lazy learner?	2	BL1	CO3	3
18	Explain basic concepts of classification.	2	BL2	CO3	3
19	What is cluster analysis?	2	BL1	CO4	4
20	Explain types of Data Cluster Analysis.	2	BL2	CO4	4
21	Define Outlier Analysis.	2	BL1	CO4	4
22	What are the requirements of clustering?	2	BL1	CO4	4
23	Predict major tasks of clustering	2	BL6	CO4	4
	evaluation?				
24	Explain applications of clustering.	2	BL2	CO4	4
25	List the applications of web usage	2	BL1	CO5	5

	mining.				
26	Give examples for unstructured text.	2	BL2	CO5	5
27	Explain time series data.	2	BL2	CO5	5
28	Define Mining object.	2	BL1	CO5	5
29	Explain mining sequence patterns in transactional database.	2	BL2	CO5	5
30	What is recommender system?	2	BL1	CO5	5

PART-B

Q.No	Questions 📃	Marks	BL	CO	Unit No
1	Discuss data mining as a step in	6	BL6	CO1	1
	knowledge discovery process and various				
	challenges associated.				
2	Explain Various Data Mining	6	BL2	CO1	1
	Functionalities with an example.				
3	Explain major issues in data mining.	6	BL2	CO1	1
4	Illustrate about Data Mining Task	3	BL2	CO1	1
	Primitives.				
5	What is Data Cleaning? Describe various	3	BL1	CO1	1
	methods of Data Cleaning.		-		
6	Discuss about the Issues to be considered	3	BL6	CO1	1
	during Data Integration.		1		
7	What is preprocessing? Explain about	3	BL1	CO1	1
	Data Transformation techniques.				
8	Discuss with few words about binning	3	BL6	CO1	1
	methods				
9	How data mining is differed from data	3	BL2	CO1	1
	warehousing?				
					•

EXPLORE TO INVENT

10	How to find all the frequent item sets	6	BL1	CO2	2
	using Apriori algorithm for the given data				
	where min-sup = 2 .				
	Transactional Data for an <i>AllElectronics</i> Branch				
	TID List of itom IDs				
	T200 I2. I4				
	T300 I2, I3				
	T400 I1, I2, I4				
	T500 I1, I3				
	T600 I2, I3				
	T700 I1, I3				
	T800 I1, I2, I3, I5				
	1900 11, 12, 13				
11	List out different kinds of Association	6	BL1	CO2	2
11	Bules with an example for each				
	Rules with an example for each.				
12	Describe in detail about constraint based	6	BL2	CO2	2
	association mining				-
	association minning.				
13	Explain about maximal frequent Item set	3	BL2	CO2	2
	and closed frequent Item set	-			
	and crosed nequent nem set.		1		
14	Apply FP –Growth algorithm to the	3	BL3	CO2	2
	following transactional database to find		1		
	fonowing transactional adduces to find				
	11 12 15 17		1		
	001 11,13,15,17				
	002 I1,I5,I6,I7				
	003 I6,I7		_		
	004 12 13 16 17	1 A A	1D	110	
	005 18 11 16	MIN		U C	2
	006 12,15,18	8.1.3.7	17 B.	1.11	
	EXPLOREIOI	NV	EP		
15	How to improve the efficiency of	3	BL1	CO2	2
15	A uniquity	5			
	Apriori?				
16	Explain comparison of pattern evaluation	3	BL2	CO2	2
10	Explain comparison of patient evaluation	5	DL2		2
	Measures.				
17	What is graph pattern mining and write	3	BL1	CO2	2
	its types?				
18	Explain correlation analysis	3	BL2	CO2	2
10	Explain correlation analysis.	3			2
19	State classification problem and briefly	3	BL3	CO3	3
	explain general approaches to solve it.				

20	Discuss about Decision tree induction algorithm with an example.	3	BL6	CO3	3
21	Discuss about Naïve-Bayes classification algorithm with an example.	3	BL6	CO3	3
22	Justify the selection of k value for KNN classifier.	3	BL5	CO3	3
23	Explain about tree pruning.	3	BL2	CO3	3
24	Explain rule extraction from decision tree with an example.	3	BL2	CO3	3
25	Discuss hierarchical methods for clustering and contrast agglomerative and divisive approaches.	6	BL6	CO4	4
26	Explain statistical based outlier detection.	6	BL2	CO4	4
27	Describe how categorization of major clustering methods is being done	6	BL2	CO4	4
28	Criticize the evaluation metrics used for clusters.	3	BL5	CO4	4
29	List out various clustering methods.	3	BL1	CO4	4
30	How to cluster the data sets using k- means clustering algorithm?	3	BL1	CO4	4
31	How to determine the number of clusters?	3	BL1	CO4	4
32	Write and explain k means clustering algorithm.	3	BL1	CO4	4
33	Explain hierarchical clustering with example.	3	BL2	CO4	4
34	Discuss various kinds of patterns to be mined from web/server logs in web usage mining.	6 N V	BL6	CO5	5
35	Compare and contrast text mining with web content mining using lucid examples.	6	BL4	CO5	5
36	Demonstrate the application of data mining on time series data.	6	BL2	CO5	5
37	What is web content mining? Discuss in detail.	3	BL1	CO5	5
38	Explain briefly about Web mining.	3	BL2	CO5	5

39	How to convert unstructured text into	3	BL1	CO5	5
	features in text mining?				
40	Explain about	3	BL2	CO5	5
	a. Spatial data mining				
	b. Mining world wide web.				
41	Explain the process for mining in time	3	BL2	CO5	5
	series data.				
42	How will you measure precision and	3	BL3	CO5	5
	recall for text retrieval?				

