QUESTION BANK 2016



SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

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QUESTION BANK (DESCRIPTIVE)

Subject with Code : Data Warehousing and Mining (16MC815)	Course & Branch: MCA
Year & Sem: II-MCA & I-Sem	Regulation: R16

Unit 1

machine learning?	nation of technology developed from databases, st tions of data base technology lead to data mining. lead in data mining when viewed as a process of 4m	2m 4m
machine learning?	tions of data base technology lead to data mining. Ived in data mining when viewed as a process of 4m	2m 4m
	olved in data mining when viewed as a process of 4m	4m
c) Explain how the evolu	olved in data mining when viewed as a process of 4m	
	4m	knowledge
, 1		
discovery	ata warahousa and datahasas. How they are simil	
2. Distinguish between the c	Distinguish between the data warehouse and databases. How they are similar? 12m	
3. Distinguish between the c	lata warehouses and data mining.	12m
4. a)Explain the difference b	between discrimination and classification	4m
b)Between characterization	on and clustering	4m
c)Between classification	and prediction	4m
5. a) Discuss briefly about the	ne data smoothing techniques	бт
b) Differentiate operation	al database systems and data warehousing	6m
6. a) Explain data mining as	a step in the process of knowledge discovery.	6m
b) Describe briefly the co	ncept hierarchy generation for numerical data?	6m
7. a) Discuss about the conc	ept hierarchy generation for categorical data?	бт
b) Describe the various da	ata reduction techniques?	6m
8. Define data cleaning. Exp	press the different techniques for handling missing	values. 6m
9. a) Discuss issues to consi	der during data integration	6m
b) Explain about the varie	ous data smoothing techniques	6m

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10.	List and describe the five primitives for specifying a data mining task	12m	
	Unit 2		
1.	a) Differentiate operational database systems and data warehousing.	бт	
	b) Discuss briefly about the multidimensional data models.	бт	
2.	a) Explain with an example the different schemas for multidimensional databases?6m		
	b) Demonstrate the four major types of concept hierarchies are schema hierarchies, set- grouping hierarchies, operation-derived hierarchies and rule-based hierarchies. Briefly define each type of hierarchy. 6m		
3.	Describe the three-tier data warehousing architecture	12m	
4.	a) Discuss the efficient processing of OLAP queries.	бт	
	b) Explain the data warehouse applications.	бт	
5.	a) Explain the architecture for on-line analytical mining.	бт	
	b) Illustrate the applications of data mining.	бт	
6.	a) Explain the efficient methods for data cube computation.	бт	
	b) Describe the common techniques are used in ROLAP and MOLAP.	бт	
7.	a) Explain how to compute iceberg cubes by using BUC and star-cubing a	lgorithms.6m	
	b) Discuss the complex iceberg condition to compute cube.	бт	
8.	Explain about the concept description? And what are the differences betwee description in large databases and OLAP?	een concept 12m	
9.	a)State and explain algorithm for attribute-oriented induction	бт	
	b) Describe mining class comparisons and class description.	бт	
10.	a)Compare the schemas for the multidimensional data models.	бт	
	b) Explain about the data warehouse implementation with an example.	бт	
	UNIT 3		

1. a) Define the terms frequent itemsets, closed itemsets and association rules. 6m

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	b) Describe the different techniques to improve the efficiency of Apriori? Explain.6m	
2.	Discuss the FP-growth algorithm. Explain with an example.	12m
3.	a) Discuss about mining multilevel association rules from transaction datal detail.	bases in 6m
	b) Explain how to mine the multidimensional association rules from relation and data warehouses 6m	onal databases
4.	a) Discuss about constraint-based association mining.	бт
	b) Discuss the generating association rules from frequent itemsets.	бт
5.	Explain the Apriori algorithm with given example.	12m
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6.	Explain about the classification and prediction. Example with an example.	12m
7.	Discuss about basic decision tree induction algorithm.	12m
8.	Discuss the back propagation algorithm and explain with example.	12m
9.	a) Explain briefly various measures associated with attribute selection.	6m
	b) Explain training of Bayesian belief networks.	бт
10.	a) Explain about "IF_THEN" rules used for classification with an example	e. 6m

b) Discuss the process of extracting IF-THEN rules using sequential covering algorithm.
6m

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	UNIT IV		
1.	Discuss the various types of data in cluster analysis.	,	12m
2.	Explain the categories of major clustering methods.		12m
3.	a) Write algorithms for k-means and k-medoids. Explain.	(бт
	b) Describe the different types of hierarchical methods.	(бт
4.	Demonstrate about the following hierarchical methods a)BIRCH b)Chamelon.12m		n.12m
5.	a) Discuss about the DBSCAN density-based methods.	(бm
	b) Explain about grid-based methods.	(бm
6.	a) Describe the mode-based methods.	(бm
	b) Explain the working of CLIQUE algorithm.	(бm
7.	Explain about the mining of data streams.	(бт
8.	Discuss the four major components of trend analysis for ch	-	series data? 12m
9.	a) Demonstrate about the similarity search in time series an	nalysis.	бm
	b) Describe about the sequential pattern mining.	(бm
10.	a)Describe the characteristics of social networks.	(бm
	b)List the tasks and challenges of link mining.	(бт
UNIT V			
1.	Summarize the descriptive mining of complex data objects		12m
2.	a)Discuss briefly about the generalization of structured dat	a. (бт
	b) Define class composition hierarchy.	(бт
3.	Explain how it is generalized by giving a suitable example	•	12m
4	a) Explain the construction and mining of object cubes.	(бm

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	b)Describe the generalization-based mining of plan databases by divide-and with an example.	d-conquer 6m
5.	Explain the construction of spatial data cube with suitable example.	бт
6.	a) Describe multimedia databases.	бт
	b)Explain mining multimedia databases.	бт
7	a) Explain briefly about the text data analysis and information retrieval.	бт
	b) Describe about the Latent Semantic Indexing(LSI).	бт
8.	a)Discuss about the Probabilistic Latent Semantic Indexing (PLSI).	бт
	b)Explain about the Locality Preserving Indexing (LPI).	бт
9.	a)Explain about mining the world wide web.	бm
	b)Describe about the mining the web page layout structure.	бm
10.	a)Demonstrate about the data mining for intrusion detection.	бт
	b)Explain the examples of commercial data mining systems.	бт

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