

DA-003-003621

Seat No.

B. C. A. (CBCS) (Sem. VI) Examination April / May - 2015

CS-32: Data Warehousing and Data Mining

Faculty Code : 003 Subject Code : 003621						
Time: $2\frac{1}{2}$ Hours] [Total Marks: 70]						
1	Atte	empt following MCQs : 20				
	(1) Data Mart is database.					
		(A)	Rational		(B)	Irrational
		(C)	Thematic		(D)	Logical
(2) A data warehouse is collection of which ?						which ?
		(A)	Databases		(B)	Tables
		(C)	Records		(D)	Data marts
(3) Which is most well-known descriptive date				tive data mining method?		
		(A)	Cluster analysis			
		(B)	Regression analy	ysis		
(C) Multidimensional scalling						
		(D)	Frequency distri	bution		
(4) In neural network, which layer performs analysis ?					erforms analysis ?	
		(A)	Input layer		(B)	Output layer
.		(C)	Hidden layer	_	(D)	Internal layer
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(5)	Kohonen networks can be considered as a method o cluster analysis.							
	(A)	(A) Nearest-neighbourhood						
	(B)	Uni-dimensional						
	(C)	Bi-dimensional						
	(D)	Non-hierarchical						
(6)	To d	To detect frauds, which data mining methods is most suitable?						
	(A)	Association rules	(B)	Nearest-neighbourhood				
	(C)	Kohonen network	(D)	Euclidian distance				
(7)	For market basket analysis which data mining method is most suitable ?							
	(A)	Association rules						
	(B)	Nearest-neighbourhood						
	(C)	Kohonen network						
	(D)	Euclidian distance						
(8)	Typically which kind of data is used for data mining?							
	(A)	Statistical	(B)	Observational				
	(C)	Depended	(D)	${\bf Independent}$				
(0)								
(9)		The data in the data warehouse is						
	(A)	Volatile	(B)	Non-volatile				
	(C)	Non-integrated	(D)	Coupled				

(10)	Historical data is available in					
	(A)	OLTP	(B)	OLAP		
	(C)	Data mart	(D)	All		
(11)	ETL software is the implementation of					
	(A)	Data processing	(B)	Business processing		
	(C)	BI processing	(D)	Parallel processing		
(12)	CART and CHAID are example of algorithm.					
	(A)	Genetic	(B)	Euclidian distance		
	(C)	Decision tree	(D)	Cluster		
(13)	In which algorithm iteratively merges clusters until all item belong in one cluster?					
	(A)	K-means	(B)	Pincer-Search		
	(C)	Agglomerative	(D)	FP-Tree Growth		
(14)) In which algorithm items are moved among sets of clusters until the desired set is reached?					
	(A)	K-means	(B)	Pincer-Search		
	(C)	Agglomerative	(D)	FP-Tree Growth		
(15)	Clustering is classification.					
	(A)	Supervised	(B)	Unsupervised		
	(C)	Linear	(D)	Non-linear		

(16) WEKA is supported by which platform?			atform ?		
	(A)	.NET	(B)	Java	
	(C)	RDBMS	(D)	CORBA	
(17) Which one deals with detecting and remo inconsistencies form data in order to impro data ?				_	
	(A)	Data Parsing	(B)	Data Filtering	
	(C)	Data Cleansing	(D)	Data Reduction	
(18) From the following, which are is a temporary location of data from source system is collected, cleaned, integrated detailed data in normalized form exists?					
	(A)	Presentation Area	(B)	Process Area	
	(C)	Staging Area	(D)	Source System Area	
(19) Which one describes concepts or task-relevation concise, summarative, informative form interesting properties of data?					
	(A)	Data Characterization			
(B) Data Summarization					
	(C) Descriptive Data Mining(D) Comparison of Data				
(20)	(20) locates and identifies individual data elements in to source file and then isolates these data elements in the targ file.				
	(A)	Staging	(B)	Parsing	
	(C)	Standardizing	(D)	Consolidating	
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- 2 Attempt following questions: (any three) 6 (a) Define association rule. (1) (2) What is data cleansing? Describe Data Mining process in brief. (3) Explain: Point Estimation. **(4)** What is pattern evaluation? (5)(6) Define Bayes theorem. Attempt following questions : (any three) 9 (b) (1) What is Outlier Discovery? Explain. **(2)** Distinguish: Database v/s Data Warehouse. (3)Distinguish: OLAP v/s OLTP. Write a note on Machine Learning. **(4)** Write differences between fact data and dimension data. (5)(6) Explain ETL with suitable example. 10 Attempt following questions: (any two) (c) **(1)** Write and explain steps in Data Mining process. **(2)**
 - Explain single-dimensional association rule for large database in detail.
 - (3) List various Genetics algorithms. Explain any one.
 - What is clustering? List various clustering algorithms. **(4)** Explain any one.
 - State and discuss prime steps of Apriori algorithm. **(5)**

- 3 (a) Attempt following questions: (any three) 6
 - (1) What are the uses of Statistics in Data Mining.
 - (2) List various popular Data Mining tools. Explain any one with its functionality.
 - (3) Differentiate: Operational system and informational system.
 - (4) Describe Spatial mining in brief.
 - (5) Write a brief note on correlation analysis.
 - (6) Explain: Data Mart.
 - (b) Attempt following questions: (any three) 9
 - (1) Write a note on architectural components of Data Warehouse.
 - (2) List different types of OLAP systems. Explain any one.
 - (3) How Decision tree works? Explain.
 - (4) Describe the advantages of open source software available for Machine Learning.
 - (5) Write a note on Meta data architecture.
 - (6) What is Grid-based clustering? Explain.
 - (c) Attempt following questions: (any two) 10
 - (1) With a case study write role of Data Mining in market basket analysis.
 - (2) In Insurance applications how Data Mining is useful? Highlight the major points of case study.

- (3) Describe the case study in Education field.
- (4) Write comparison and contradiction of various ETL tools.
- (5) Describe strength and weakness of K-means method with suitable example.