Examination 2020 under cluster 4 (PCE)

Program: TE Information Technology Curriculum Scheme: Rev2012 Examination: Third Year Semester VI Course Code: ITC 604 and Course Name: DMBI

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Strategic value of data mining is		
Option A:	cost-sensitive		
Option B:	work-sensitive		
Option C:	technical-sensitive		
Option D:	time-sensitive		
-			
Q2.	Calculate median? { 3,6,6,6,8,8,9,11,13,15 }		
Option A:	9		
Option B:	7		
Option C:	8		
Option D:	8.5		
Q3.	An is a heuristic for selecting the splitting criterion that "best" separates		
	a given data partition, D, of class-labeled training tuples into individual classes		
Option A:	Association rules		
Option B:	Decision tree		
Option C:	Clustering		
Option D:	Attribute selection measure		
Q4.	For unimodal frequency curves that are moderately skewed (asymmetrical), we		
	have the following empirical relation		
Option A:	$mean - mode = 3^{*}(mean + median)$		
Option B:	$mean - mode = 2^{*}(mean - median)$		
Option C:	$mean - mode = 5^{*}(mean - median)$		
Option D:	$mean - mode = 3^{*}(mean - median)$		
Q5.	A is one of the most effective graphical methods for determining if there		
	appears to be a relationship, pattern, or trend between two numerical attributes		
Option A:	scatter plot		
Option B:	quantile-quantile plot		
Option C:	quantile plot		
Option D:	loess curves		
Q6.	methods smooth a sorted data value by onsulting its "neighborhood," that		
	is, the values around it. The sorted values are distributed into a number of		
Outien A	"buckets," or bins		
Option A:	Regression		
Option B:	Binning		

Examination 2020 under cluster 4 (PCE)

Option C:	Clustering		
Option D:	Boxplot		
1			
Q7.	Info(D) is also known as theof D		
Option A:	Entropy		
Option B:	Average		
Option C:	Mean		
Option D:	Mode		
Q8.	P(XjH) is the probability of X conditioned on H		
Option A:	Prior		
Option B:	Posterior		
Option C:	Conditional		
Option D:	Subjective		
Q9.	is used to split up your dataset into a train and test set		
Option A:	cross validation method		
Option B:	Bootstrap method		
Option C:	Hold out method		
Option D:	Random sampling		
Q10.	is when the dataset is randomly split up into K-groups		
Option A:	cross validation		
Option B:	hold out		
Option D:	Bootstrap method		
Option D:	error measure		
Option D.			
Q11.	Which statement is not true about cluster analysis		
Option A:	Cluster analysis is a technique for analyzing data when the criterion or dependent		
1	variable is categorical and the independent variables are interval in nature		
Option B:	Objects in each cluster tend to be similar to each other and dissimilar to objects in		
-	the other clusters		
Option C:	Cluster analysis is also called classification analysis or numerical taxonomy		
Option D:	Groups or clusters are suggested by the data, not defined a priori		
Q12.	The metric that is used to calculate cluster distances is called		
Option A:	length metric		
Option B:	Distance metric		
Option C:	Cluster metric		
Option D:	Linkage metrics		
Q13.	BIRCH stands for		
Option A:	Balanced Integral Reduction and Clustering using Hierarchies		
Option B:	Balanced Integral Reduction and Clustering using Hierarchies Balanced Iterative Recurrent Clustering using Hierarchies		
Option D:	Balanced Iterative Reducing and Clustering using Hierarchies		
Option D:	Balanced Integral Recurrent Clustering using Hierarchies		
Q14.	Consider points $x1 = (6,8)$; $x2 = (5,7)$; $x3 = (8,4)$. What would be cluster feature for		
<u></u>			

Examination 2020 under cluster 4 (PCE)

	{x1,x2,x3}		
Option A:	(3,(10,19),(120,125))		
Option B:	(3,(19,19),(125,129))		
Option C:	(3,(9,10),(100,81))		
Option D:	(3,(10,19),(125,129))		
Q15.	When an algorithm uses the, to measure the distance between clusters, it is		
	sometimes called a nearest-neighbor clustering algorithm		
Option A:	minimum distance		
Option B:	total distance		
Option C:	maximum distance		
Option D:	average distance		
Q16.	Select application where Outlier Analysis is used		
Option A:	Market Basket Analysis		
Option B:	Credit card Fraud Detection		
Option C:	Segmentation of Customer		
Option D:	prediction of rain fall		
Q17.	What does Apriori algorithm do		
Option A:	Discovering interesting relations between variables in large databases		
Option B:	Making a group of abstract objects into classes of similar objects		
Option C:	Predict the class label of tuple whose label is not known		
Option D:	Finding outliers in dataset		
1			
Q18.	Which Frequent Pattern Mining Algorithm requires more scans of data		
Option A:	DBSCAN		
Option B:	FP growth		
Option C:	OPTICS		
Option D:	Apriori		
- F			
Q19.	The first step of Apriori algorithm is		
Option A:	Itemset generation		
Option B:	Pruning		
Option C:	Candidate generation		
Option D:	Partitioning		
Option D.			
Q20.	What makes BI 2.0 different		
Option A:	Semi structured data is taken care of		
Option B:	Unstructured data is taken care of		
Option D: Option C:	Dynamic querying of real-time corporate data		
Option D:	Structured data is taken care of		
Option D.			
021	We have Market Basket data for 1,000 rental transactions at a Video Store. There		
Q21.	are four videos for rent Video A, Video B, Video C and Video D. The		
	probability that Video D will be rented given that Video C has been rented is		
	known as		
Ontion A.			
Option A:	Support		

Examination 2020 under cluster 4 (PCE)

Option B:	Confidence	
Option C:	lift	
Option D:	the basic probability	
Q22.	Operational databases are designed to support whereas decision support systems are designed to support	
Option A:	transactional processing, data analysis	
Option B:	data analysis, transactional processing	
Option C:	independent data marts, dependent data marts	
Option D:	dependent data marts, independent data marts	
Q23.	What is the full form of DSS in Data Warehouse	
Option A:	Decisive selection system	
Option B:	Decision support solution	
Option C:	Decision solution system	
Option D:	Decision support system	
Q24.	An is a heuristic for selecting the splitting criterion that "best" separates a given data partition, D, of class-labeled training tuples into individual classes	
Option A:	Clustering	
Option B:	Decision tree	
Option C:	Attribute selection measure	
Option D:	Association rules	
Q25.	What is meant by the term 'accuracy'	
Option A:	The overall quality of the data	
Option B:	The extent to which a value approaches its true value	
Option C:	The lack of bias in the data	
Option D:	The level of detail at which data is stored.	

Examination 2020 under cluster 4 (PCE)

Program: TE Information Technology Curriculum Scheme: Rev2012 Examination: Third Year Semester VI Course Code: ITC 604 and Course Name: DMBI

Time: 1 hour

Max. Marks: 50

Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	D
Q2.	С
Q3.	D
Q4	D
Q5	А
Q6	В
Q7	А
Q8.	В
Q9.	С
Q10.	А
Q11.	А
Q12.	D
Q13.	С
Q14.	В
Q15.	А
Q16.	В
Q17.	А
Q18.	D
Q19.	С
Q20.	С
Q21.	В
Q22.	А
Q23.	D
Q24.	С
Q25.	В