### MCQ SUBJECT: DATA MINING AND WAREHOUSING UNIT-I

1.	-	is as finding hidden information in a database.
	a)	Data mining
	b)	Database access
	c)	DBMS
	d)	Data warehouse.
2.	KDD n	neans discovery in databases.
	a)	King
	b)	Kite
	c)	Knowledge
	d)	Kind
3.		model makes a prediction about values of data using known results found from
	differe	nt data.
	a)	Descriptive
	b)	Preference
	c)	Predictive
	d)	Algorithm
4.		maps data into predefined grouped or classes.
	a)	Classification
	b)	Regression
	c)	Prediction
	d)	Summarization
5.		model identifies patterns or relationships in data.
	a)	Predictive
	b)	Non-predictive
	c)	Descriptive
	d)	Unpredictable
6.		is he use of algorithm to extract the information and patterns derived by the KDD
	process	S.
		Data mining
	b)	Data base
	c)	Data access
		Data processing
7.		is he process of finding useful information and paterns in data.
	· ·	Data mining
	b)	KDD
	c)	Data warehouse
	d)	Data processing
8.	-	is a type of classification where an input pattern is classified into one of several
		based on predefined classes
		Pattern recognition
	b)	TSA
	c)	Clustering

	d)	Prediction
9.		is used to map data item into real valued prediction variable.
	a)	Clustering
	b)	Classification
	c)	Regression
	d)	TSA
10.		is used to visualize the time series.
	a)	Time series plot
	b)	Watch dog
	c)	Time series analysis
	d)	Grouping
11.	Cluster	ing is also called as
	a)	Grouping
	b)	Segmentation
	c)	Unsupervised learning
	d)	All the above
12.	Summa	rization is also called as
	a)	Characterization
	b)	Generalization
		Simple description
	,	All the above
13.		maps data into sunsets with associated simple description.
		Summarization
	,	Association Rules
		Classification
		Clustering
14.		refers to the DM task of uncovering relationships among data.
		Link analysis
		Clustering
	c)	TSA
15	d)	
13.		is a model that identifies specific types of data association. TSA
		Sequence discovery
		Clustering
		Association Rules
16	-	is used to determine sequential patterns in data.
10.		TSA
		Sequence discovery
		Clustering
		Association rules
	,	
17.	The de	finition of KDD includes the keyword
	a)	Useful
	b)	This
	c)	DM
	d)	All the above

18.	In trans	formation is used to reduce the number of possible data values being
	conside	ered.
	a)	Data reduction
	b)	Data interchange
	c)	Errorneous of data
	d)	Clearence of data
19.		techniques are used to make the data easier to mine and more useful and to
		e meaningful results.
	•	Preprocessing
		Selection
	,	Transformation
	· · · · · ·	Interpretation
20.		refers to the visual representation of data.
		GUI
	b)	Interpretation
		Visualization
	d)	Hybrid
21.		_ techniques include the box plot and scatter diagram.
		Graphical
		Geometric
	c)	Icon-based
	d)	Pixel-based
22.		is used to proceed from specific knowledge to more general information.
	a)	Compression
		Induction
	c)	Hybrid
	d)	Pruning
23.		occurs when the model does not fit future states.
	a)	Overfitting
	b)	Human interaction
	c)	Outliers
	d)	Integration
24.	There a	are many data entries that do not fit nicely into derived model.
	a)	Overfitting
	b)	Human interaction
	c)	Outliers
		Integration
25.	IR stan	ds for
		Information reduction
	,	Information retrieval
	,	Information results
		Information relation
26.		is a software that is used to access the database.
		DBMS
	b)	OLTP
	c)	
	d)	CFMS

27.		data is said to be invalid or incorrect.
	a)	Missing data
	b)	Irrelevant data
	c)	Noisy data
	d)	Changing data
28.	ROI sta	ands for
	a)	Return on investment
	b)	Return on instruction
	c)	Return on information
	d)	Return on invalid data
29.	The use	e of other attributes that increase the complexity and decrease in algorithm is called
	a)	Dimensionality Curse
	b)	Dimensionality reduction
	c)	Dimensionality attribute
	d)	Dimensionality
30.		techniques are targeted to such application as fraud detection, criminal suspects,
	predicti	ion of terrorist.
	a)	DM
	b)	DB
	c)	DBMS
	d)	OLTP
31.		access a database using a well defined query stated in language such as SQL.
	a)	DBMS
	b)	DBS
	c)	KDD
	d)	Database queries
32.	A datab	pase is partitioned into disjoint grouping of similar tuples called
	a)	Clustering
	b)	Classification
	c)	
	d)	Generlization
33.		
		Patterning
	b)	Pattern recognition
		Patterning of data
		Pattern analysis
34.		O, the input to the process is known as and the Output is
		Informtion, data
		Field,record
	· ·	Record, field
		Data ,information
35.		O, obtaining the data from various DB, files, and other sources is called
		Preprocessing
	,	Selection
	· ·	Tranformation
	d)	Evaluation

36.	Link an	alysis is otherwise called as
	a)	Association
	b)	Association rule
	c)	Affinity analysis
	d)	All the above
37.	Predict	ion application include
		Flooding
	b)	Speech recognition
	c)	Machine learning
	d)	All the above
38.	In regre	ession, some type of error analysis is used to determine which function is
	a)	Good
	b)	Best
	c)	Excellent
	d)	Bad
39.	Data m	ining is otherwise called as
		Data analysis
		Data discovery
		Deductive learning
		All the above
40.	,	e of DBMS tool is
		1960
	b)	1970
	,	1980
	d)	1990
41.	,	trics used include the traditional metrics of space and time based on
		Complexity analysis
		Effectiveness
	,	Usefulness of data
	· ·	Scalability
42.		data are noisy and have many missing attributes values.
	a)	Real world
	b)	Abstract
	c)	Assumption
		Authorized
43.	,	e of data is found in GIS data base .
		Missing
	b)	Irrelevant
	,	Noisy
	d)	Multimedia
	4)	
44.	-	DB can be viewed as using to help uncover hidden information about the
	data.	
	a)	Search
	b)	Compression

	c)	Approximation
	d)	Querying
45.	Interfac	ces between technical experts and domain comes under issues.
	a)	Overfitting
	b)	Human interaction
	c)	Outlier
	d)	Application
46.	The dat	a Mining process can itself be vies a type of underlying database.
	a)	Querying
	b)	Induction
	c)	Search
	d)	Processing
47.	req	uests may be treated as special, unusual or one time needs.
	a)	KDD
	b)	DM
	c)	DBMS
	d)	DB
48.		and are effective tools to attack scalability problems.
	a)	Dimensionality & Parallelization
	b)	Sampling &Dimensionality
	c)	Effectiveness &Sampling
	d)	Sampling & Parallelization
49.	Large d	lata set is otherwise called as
	a)	Massive datasets
	b)	High datasets
	c)	Noisy datasets
	d)	Irrelevent datasets
50.	KDD p	rocess consists ofsteps .
	a)	One
	b)	Three
	c)	Four
	d)	Five

#### UNIT-II

51.		models describe the relationship between I/O through algebraic equation.
	a)	Parametric
	b)	Non-parametric
	c)	Static
	d)	Dynamic
52.		_ may also be used to estimate error.
	a)	Squared error
	b)	Root mean error
	c)	Mean Root square
	d)	Mean squared error
53.		assumes that a linear relationship exists between the input data and the output data.
	a)	Bivariate regression
	b)	Correlation
	c)	Multiple regression
		Linear regression
54.		algorithm solves the estimation problem with incomplete data.
		Expectation maximization
		Expectation minimization
	,	Summarization-maximization
	,	Summarization minimization
55.		on tree uses a techniques.
		Greedy
		Divide & Conquer
	,	Shortest Path
	,	BFS
56.	-	rpothesis and hypothesis are two complementary hypothesis.
	,	Classical
		Testing
	,	Alternative
57		None of the above
5/.		AS of an estimator is the difference between &values.
	•	Expected,actual
	b)	Actual ,Expected  Maximal Minimal
	· ·	Maximal, Minimal
50	-	Minimal,Maximal estimator is one whose BIAS is 0.
30.		Unbiased
	· ·	Rule biased
		Mean Root square
	d)	Mean squared error
	u)	mean squared entri

59.		is defined as the expected value of the squared difference between the estimate and the
	actual	value.
	a)	MSE
	b)	RMS
	c)	EM
	d)	MLE
60.	The	may also be used to estimate error or another statistic to describe a distribution.
	a)	RMS
	b)	MLE
	c)	EM
	· · · · · ·	MSE
61.		_ is a technique to estimate the likelihood of a property given the set of data as evidence
	or inpu	
	,	Point Estimation
	· · · · · ·	Models based on summarization
		Bayes theorem
	d)	Hypothesis testing
62.	In Box	plot the Total range of the data value is divided into
	a)	Regions
	b)	Quartiles
	c)	Divisions
	d)	Partitions
63.		measure is used instead of similarity measures.
	a)	Distance
	b)	Dissimilarity
	,	Both a,b
	d)	None of the above
64.		relates the overlap to the average size of the two sets together.
	a)	Dice
	b)	Jaccard
	c)	Cosine
	d)	Overlap
65.		is used to measure the overlap of two sets as related to the whole set caused by their
	union.	
	a)	Dice
	b)	Jaccard
	c)	Cosine
	d)	Overlap
66.		coefficient relates the overlap to the geometric average of the two sets.
	a)	Dice
	b)	Jaccard
	c)	Cosine
	d)	Overlap

6/.	The	metrics determines the degree to which the two sets overlap.
	a)	Dice
	b)	Jaccard
	c)	Cosine
	d)	Overlap
68.		is a predictive modeling technique used in classification ,clustering,etc.
		Neural networks
	,	Decision tree
		Genetic algorithm
	· · ·	All the above
69.		ural networks can be viewed as a directed graph with nodes.
	,	Two
		Three
		Four
		One
70.		l nodes are also called as
		Input
		Output
	,	Hidden
	,	Sink
71.		al networks activation function produces a linear output value based on the input.
		Threshold
		Step
		Linear
		Sigmoid
72.		is a bell shaped curve with output values in the range [0,1].
	•	Linear
	· · ·	Guassian
		Hyperbolic
=-		Sigmoid
73.		al network, is an S shaped curve with output values -1,1
	a)	č
	b)	Linear
	c)	Step
7.4	d)	Hyperbolic
74.		ossover technique generates new individual called
	a)	Offspring
	b)	Children
		Both a, b
75	· · ·	None of the above
15.		_ is used to determine the best individuals in a population.
	a)	Crossover
	b)	Mutation  Fitness function
	c)	Fitness function All the charge
	d)	All the above

76.	The	operation randomly changes character in the offspring.
	a)	Crossover
	b)	Mutation
	c)	Fitness function
	d)	Both a,b
77.		is defined by precise algorithms that indicate how to combine the given set of
	individ	ual to produce new ones.
	a)	Production
	b)	Reproduction
	c)	Genetic algorithms
	d)	Crossover
78.	The act	ivation function is also called as
	a)	Processing element function
	b)	Squashing function
	c)	Firing rule
	d)	All the above
79.	The sul	osections of the chromosomes are called
	a)	Cross over
	b)	Genes
	c)	Alleles
	d)	Offspring
80.		is used to estimate error or to describe a distribution.
	a)	RMS
	b)	MSE
	c)	SE
	d)	Jackknife
81.		can be defined as a value proportional to actual probability with specific distribution.
	a)	Likelihood
	b)	Maximum Likelihood
	· ·	Estimation
	,	None of the above
82.	In hypo	othesis testing O represents
	a)	Outliers
	b)	Observed data
		Output
	,	None of the above
83.		andard formula to measure linear correlation is the
	· ·	Correlation coefficient
		Classification
		Clustering
0.4		Dissimilarity measures
84.		are often used instead o similarity measures.
	· ·	Distance
		Dissimilarity measure
	-	Both a,b
	d)	None of the above

85.	A varia	tion of sigmoid function is called
	a)	Gaussian
	b)	Hyperbolic
	c)	Linear
	d)	Threshold
86.	Gaussia	an function is a shaped curve.
	a)	S
	b)	V
	c)	Bell
	d)	C
87.		is used to determine the best individuals in a population.
	a)	Mutation
	b)	Fitness function
	c)	Crossover
	d)	Starting set
88.	One of	the most important components of a genetic algorithm is
	a)	How to select individual
	b)	How to select offspring
	c)	How to select crossover
	d)	How to select fitness
89.	·	coefficient is used to measure the overlap of two sets as related to whole set caused
	by their	union.
	a)	Dice
	b)	Jaccard
	c)	Cosine
	d)	Overlap
90.		_ coefficient is used to relates the overlap to the average size of two sets together.
	a)	Dice
	b)	Jaccard
	c)	Cosine
	d)	Overlap
91.		_ coefficient relates the overlap to the geometric average of the two sets.
	a)	Dice
	-	Jaccard
	c)	Cosine
	d)	Overlap
92.	The	metric determines the degree to which the two sets overlap.
		Overlap
		Dice
	c)	Cosine
	d)	Jaccard
93.	-	on of null hypothesis causes another hypothesis called hypothesis.
	a)	Alternative
	b)	Similarity measure
	,	Correlation
	d)	Mutation

94.	The inp	ut nodes exist in layer.
	a)	Output
	b)	Input
	c)	Hidden
	d)	All the above
95.	Internal	nodes is called nodes.
	a)	Input
	b)	Output
	c)	Hidden
	d)	All the above
96.	Artifici	al NNs can be classified based on the type of
	a)	Connectivity
	b)	Learning
	c)	Both a, b
	d)	None of the above
97.		occurs when the NNs is trained to fit one set to data.
	a)	Outlier
	b)	Noisy data
	c)	Missing data
		Overfitting
98.	To avoi	d overfitting NNs are advisable.
	a)	Larger
	b)	Smaller
	c)	Medium
	d)	All the above
99.	In sigm	oid, c is a
	a)	Change
	b)	Constant
	c)	Crossover
	d)	Children
10	0	is defined as the excepted value of the squared difference between the estimate and the
	actual	
	a)	MSE
	b)	RMSE
	c)	BIAS
	d)	RMS

#### UNIT-III

101.	Esti	mation and prediction may be viewed as types of
	a)	Clustering
	b)	Classification
	c)	Regression
	d)	Time Series
102.	Class	sification performed by dividing the input space of potential database tuples into
	a)	Regions
	b)	Class
	c)	Space
	d)	Sector
103.		values cause during both training and the classification process itself.
	a) ]	Data
	b)	Class
	c)	Predicate
	d)	Missing data
104.	The	performance of classification usually examined by evaluating theof the classification.
	a) .	Accuracy
	b) (	Contribution
	c)	Special value
	<b>d</b> )	Missing values
105.	Clas	ssification true positives and false positives are calculated by the following curve.
	a)]	MOC
	b)	NOC
	c)]	ROC
	d)	COC
106.	The	matrix illustrates the accuracy of the solution to a classification problem.
	a)	Confusion
	b)	Mutation
	c)	Crossover
	d)	Gaussian
107.		problems deal with estimation of an output value based on input values.
	a)	Prediction
	b)	Classification
	c)	Clustering
	d)	Regression

108.		_ is erroneous data.
	a)	OC
	b)	Regression
	c)	Noise
	d)	Linear model
109.	Whic	h are data values that are exceptions to the usual and expected data?
	a)	Outliers
	b)	Noise
	c)	Regression
	d)	Poor fit
110.	The _	classification can be viewed as both a descriptive and a predictive type of
	algor	ithm.
	a)	Naive
	b)	Bayes
	c)	Naive bayes
	d)	Prediction
111.	The s	imilarity (or) distance measures may be used to identify the of different items in the
	datab	ase.
	a)	Likeness
	b)	Alikeness
	c)	Outliers
	d)	Centroid
112.	A stra	aightforward distance based approach assuming the each class Ci is represented by
	a)	Centroid
	b)	Outlier
	c)	Medoid
	d)	KNN
113.	Expa	nd : KNN
	a)	K Normal Neighbors
	b)	K Nearest Neighbor
	c)	K Normal Nextvalue
	d)	K Nearest Nest
114.	The d	lecision tree approach to classification is to divide search space into regions.
	a)	Square Trion cycles
	b) c)	Triangular Circular
	d)	Rectangular

P.ARAVINDAN MCA, M.PHIL.

115.	In DT	,each internal node is labled with an
	a)	Class
	b)	Attribute
	c)	Arc
	d)	Database
116.	In DT	, each leaf node labled with
	a)	Class
	b)	Attribute
	c)	Arc
	d)	Link
117.	The _	technique to building a DT is based on information theory and attempts to minimize
	the ex	pected number of comparisons.
	a)	CART
	b)	ID3
	c)	C.4.5
	d)	ROC
118.		l networks are more robust than DTs because of the
	a)	Arcs
	b)	Links
	c)	Weights
	d)	Classes
119.		, the normal approach used for processing is called
	a)	Activation function
	b)	Interconnections
	c)	Training data
	d)	Propagation
120.		N starting state is modified based on feedback of its performance is referred to as
	a)	Supervised
	b)	Unsupervised
	c)	Both (a) and (b)
	d)	None of these
121.		learning can also be performed if the output is not known.
	a)	Supervised
	b)	Unsupervised
	c)	Neither (a) or (b)
	d)	Oral

122.	The N	Mean Squared Error (MSE) is found by
	a)	(yi-di)2/2
	b)	(yi+di)2/2
	c)	(di-yi)2/2
	d)	(di+yi)2/2
123.	The _	can be used to find a total error over all nodes in the network.
	a)	RDF
	b)	ROC
	c)	MSE
	d)	CMC
124.	Whic	h learning technique that adjusts weights in the NN by propagating weight changes
	backy	vard from the sink to the source nodes?
	a)	Propagation
	b)	perceptrons
	c)	MSE
	d)	Back propagation
125.	In rad	lial basis function (RBF) central point value is
	a)	0
	b)	1
	c)	+1
	d)	-1
126.	The s	implest Neural Network is called a
	a)	Neuron
	b)	Gene
	c)	Perceptron
	d)	Single neuron
127.	In rul	e-based algorithms,rules that cover all cases.
	a)	if-else
	b)	if-then
	c)	switch-case
	d)	nested if
128.	The _	is used to predict a future classification value.
	a)	Genetic algorithm
	b)	Decision Tree
	c)	Rule-based Algorithm
	d)	Neural Network

129.	Multip	ole independent approaches can be applied to a classification problem is referred to as
	a)	CMC
	b)	RBF
	c)	ROC
	d)	DCS
130.	In wh	ich technique the classifier that has the best accuracy in database sample?
	a)	CMC
	b)	RBF
	c)	DCS
	d)	ROC
131.	OC s	tands for
	a)	Operating characteristics
	b)	Operating curve
	c)	Operating classifications
	d)	None of the above
132.	Rule b	ased classification algorithms generate rules to perform the classifications.
	a)	If
	b)	Then
	c)	If-then
	d)	If - else
133.	In OC	curve , the horizontal axis has the percentage ofPositives for a sample DB.
	a)	False
	b)	True
	c)	Either a, b
	d)	None of the above
134.	In OC	curve, the vertical axis has the percentage ofPositives for a sample DB.
	a)	False
	b)	True
	c)	Either a, b
	d)	None of the above
135.	The	approach is most useful in classification problem.
	a)	Incremental rule
	b)	Cluster
	c)	NN Decision tree
	d)	Decision tree

136.	techniques use labeling of the items to assist in the classification process.
	a) Intrinsic
	b) Extrinsic
	c) Overlapping
	d) Numerical
137.	A curve shows the relationship between false positives and true positives.
	a) BOC
	b) ROS
	c) ROC
	d) BOS
138.	Task of CART is
	a) Only regression
	b) Only classification
	c) Both a,b
	d) None of the above
139.	A variation of the complete link algorithm is called algorithm.
	a) Nearest
	b) Neighbour
	c) Farthest Neighbour
	d) All the above
140.	K nearest neighbor is a classification scheme based on the use of
	a) Distance Measure
	b) Similarity
	c) Complete link
	d) Average
141.	A perceptron is a neuron with multiple inputs and one output.
	a) single
	b) Multiple
	c) Double
	d) None of the above
142.	The classes that exist for a classification problem are indeed
	a) Equivalence classes
	b) Variance classes
	c) Mean classes
	d) Median
143.	The formula for straight line is
	a) $Y=mx+b$
	b) y=mx
	c) $Y=M+b$
	d) $Y=m$

144	_ are data values that are exception to the usual and expected data.
a) (	Outliers
b) N	Noise
c) E	Error
· · · · · · · · · · · · · · · · · · ·	Overfit
145.	is an errorneous data.
a) (	Overfit
b) (	Dutlier
c) N	Noise
d) N	Missing
146	problems deal with the estimation of output value based on input value.
a) Ba	aysian classification
b) K	nearest Neighbour
c) Re	egression
d) A	ll the above
147 prob	lem can be thought of as estimating the formula for a straight line.
	Regression
	Linear regression
	Bayesian classification
d) k	K nearest neighbour
_	regression uses technique.
	Box plot
	Logistic curve
•	Straight line
	Logistic line
	ree is otherwise called as
· · · · · · · · · · · · · · · · · · ·	Classification tree
	Regression tree
	K nearest neighbor
	Clustering tree
-	ects are described by a number ofthat capture the basic characteristics of an
object.	Data sets
*	Elements
,	Record
d) A	Attribute

#### **UNIT-IV**

151	is similar to classification in that data are grouped.
a)	Classification
b)	Regression
c)	Clustering
d)	DT
152. 0	One of the first domain in which clustering was used astaxonomy.
a)	Biological
b)	Zoological
c)	Mathematical
d)	Scientific
153. C	Cluster results are
a)	Static
b)	Realistic
c)	Acoustic
d)	Dynamic
154	clustering, the algorithm creates only one set of clusters.
a)	Dynamic
b)	Hierarchical
c)	Partitional
d)	Static
155. V	Vith clustering, a nested set of clusters to be created.
a)	Partitional
b)	Hierarchical
c)	Dynamic
d)	Static
156. I	n similarity measures, metric attributes satisfy the inequality.
a)	Rectangular
b)	Triangular
c)	Square
d)	Circle
157. T	The is the "middle" of the cluster it need not be actual point in the cluster.
a)	Radius
b)	Diameter
c)	Centroid
d)	Metoid

158. The cluster is represented by one centrally located object in the cluster called a		
a)	Centroid	
b)	Medoid	
c)	Radius	
d)	Diameter	
159. 7	Theis the square root of the average mean squared distance from any point in the cluster to	
C	centroid.	
a)	Radius	
b)	Medoid	
c)	Diameter	
d)	Centroid	
160. 7	Theis the square root of the average mean squared distance between all pairs of points in the	
C	cluster.	
a)	Radius	
b)	Medoid	
c)	Diameter	
d)	Centroid	
161. I	Largest distance between an element in one cluster and an element in the other is	
a)	Single Link	
b)	Complete Link	
c)	Average Link	
d)	Centroid	
162. S	Smallest distance between an element in the cluster and an element in the other is	
a)	Centroid	
b)	Medoid	
c)	Complete link	
d)	Single link	
163.	are sample points with values much different from those of the remaining set of data.	
a)	Centroid	
b)	Medoid	
c)	Outliers	
d)	Compression	
164.	In hierarchical clustering, a tree data structure is called	
a)	Connected component	
b)	Dendrogram Minimum spanning tree	
c) d)	Minimum spanning tree Bond energy	

165.	The root in the dendrogram tree contains clusters ,where all elements aretogether.
a)	Four
b)	Three
c)	Two
d)	One
166.	The space complexity for hierarchical algorithms is
a)	O(n)
b)	O(N+2)
c)	O(n2)
d)	O(2N)
167.	A component is a graph in which there exists a path between any two vertices.
a)	Connected
b)	Unconnected
c)	Nested
d)	Stylish
168.	A is a maximal graph in which there is an edge between vertices.
a)	Connected graph
b)	Clique
c)	Candidates
d)	Dendrogram
169.	Theare sample points with values much different from those of the remaining set of data.
a)	Clusters
b)	Outliers
c)	Candidates
d)	Mining
170.	is the process of identifying outliers in a set of data.
a)	Outlier detection
b)	Outlier avoidance
c)	Outlier collision
d)	Outlier prediction
171.	The outliers can be detected by well-known tests such as
a)	Chi-square test
b)	Random test
c)	Discordancy test
d)	Unit test

172.	Clustering applications include plant and classifications.
a)	Medical
b)	Biological
c)	Zoological
d)	Animal
173.	clustering , all items are initially placed in one cluster and clusters are repeat.
a)	Random
b)	Divisive
c)	Nearest neighbour
d)	Partitional
174.	BEA stands for
a)	Band Echo Algorithm
b)	Bond Echo Algorithm
c)	Balance Energy Algorithm
d)	Bond Energy Algorithm
175.	is an iterative clustering algorithm.
a)	K-means
b)	LARGE DB
c)	KDD
d)	BEA
176.	The nearest neighbor algorithm usestechnique.
a)	Single link
b)	Complete link
c)	Average link
d)	Centroid
177.	The PAM algorithm also calledalgorithm.
a)	K-means
b)	K-medoids
c)	K-centroid
d)	K-radius
178.	The time complexity of nearest neighbor algorithm is
a)	O(n)
b)	O(N+2)
c)	O(n2)
d)	O(2N)

179.	In a distributed database, each resulting cluster is called a
a)	Horizontal Fragment
b)	Vertical Fragment
c)	Both(a) & (b)
d)	None
180.	In neural network, the number of input nodes is the same as the number of
a)	Levels
b)	Clusters
c)	Points
d)	Attributes
181.	The goal of is to discover both the dense and sparse regions of a data set.
a)	Association rule
b)	Classification
c)	Clustering
d)	Genetic Algorithm
182.	clustering techniques starts with all records in one cluster and then try to split that
c	luster into small pieces.
a)	Agglomerative
b)	Divisive
c)	Partition
d)	Numeric
183.	seeks to find groups of closely related observations so that observations that belong
tl	he same cluster are more similar to each other.
a)	Association
b)	Anomaly detection
c)	Clustering
d)	None
184.	In web mining, is used to find natural groupings of users, pages, etc.
a)	Clustering
b) c)	Associations Sequential analysis
d)	Classification
185.	In algorithm each cluster is represented by the center of gravity of the cluster.
a)	k-medoid
b)	k-means
c)	STIRR
d)	ROCK

186.	In each cluster is represented by one of the objects of the cluster located near the
C	renter.
a)	k-medoid
b)	k-means
c)	STIRR
d)	ROCK
187.	Pick out a k-medoid algoithm.
a)	DBSCAN
b)	BIRCH
c)	PAM
d)	CURE
188.	Pick out a hierarchical clustering algorithm.
a)	DBSCAN
b)	BIRCH
c)	PAM
d)	CURE
189.	is the process of identifying outliers in a set of data.
a)	Outlier
b)	Outlier detection
c)	Segmentation
d)	Processing
190.	The space complexity of adjacency matrix is
a)	O(n)
b)	O(kn)
c)	O(n2)
d) 191	None o the above A variation of complete link algorithm is called the
a)	Farthest nearest neighbor
b)	Nearest neighbor
c)	Average
d)	Single
192.	A tree data structure called is used to illustrate the hierarchical clustering technique.
a)	Dendogramming
b)	Dendo
c)	Dendogram
d)	Dendograms

193.	The term indicates the ability of these NN to organize the nodes into clusters based on
1	the similarity between them.
a)	Competitive
b)	Non-competitive
c)	Self organizing
d)	None of the above
194.	CF stands for
a)	Clustering Features
b)	Clustering future
c)	Classification Features
d)	Classification Future
195.	The space complexity for K-means is
a)	O(n)
b)	O(kn)
c)	n
d)	O(n2)
196.	The squared error algorithm has type.
a)	Hierarchical
b)	Partitional
c)	Mixed
d)	Agglomeative.
197.	The time complexity for single link algorithm is
a)	O(kn2)
b)	O(n)
c)	O(kn)
d)	O(n2)
198.	The squared error clustering algorithm minimizes
a)	Error
b)	Squared error
c)	Square
d)	All the above
	With clustering the algorithm creates only one set of clusters.
	Partitional
b)	Hierarchical
c)	Agglomerative
d)	None of the above

200.	techniques use labeling of the items to assist in the classification process.
a)	Intrinsic
b)	Extrinsic
c)	Both a,b
d)	All the above
	UNIT-V
201.	The purchasing of one product when another product is purchased represents an
a)	Decision Tree
b)	Association Rule
c)	Classification
d)	Clustering
202.	Theof an item is the percentage of transactions in which that item occurs.
a)	Confidence
b)	Support
c)	Association rule
d)	Itemset
203.	Theis called the number of scans of the database.
a)	Support
b)	Confidence
c)	Strength
d)	Both (b) & (c)
204.	Potentially large item sets are called
a)	Support
b)	Confidence
c)	Candidates
d)	Itemset
205.	In association rule algorithm, the notation "P" indicates.
a)	Confidence
b)	Candidates
c)	Partitions
d)	Transactions
206.	Any subset of a large itemset must be
a)	Small
b) c)	Medium Average
	Large

207.	The large itemsets are also said to beclosure.
a)	Upward
b)	Middleware
c)	Downward
d)	None
208.	Additional candidates are determined by applying the border function.
a)	Positive
b)	Negative
c)	Average
d)	Medium
209.	The Apriori algorithm shows the sample is performed using a support called
a)	High
b)	Low
c)	Average
d)	Smalls
210.	The basic reduces the number of database scans to two.
a)	Divisive algorithm
b)	Parallel algorithm
c)	Partition algorithm
d)	Sampling algorithm
211.	The candidates are partitioned and counted separately at each processor is called
a)	Data parallelism
b)	Task parallelism
c)	Candidates
d)	Data reduction
212.	One data parallelism algorithm is the
a)	MSE
b)	FIS
c)	DDA
d)	CDA
213.	One task parallelism algorithm is called
a)	CDA
b)	MSE
c)	DDA
d)	BCD

214.	An algorithm all rules that satisfy a given support and confidence level is called
a)	Target
b)	Type
c)	Data type
d)	Data source
215.	The most common data structure used to store the candidates itemsets and their counts is
a	<u></u> -
a)	Binary tree
b)	B-tree
c)	Balanced tree
d)	Hash tree
216.	Which technique is used to improve on the performance of an algorithm given distribution Or
a	amount of main memory?
a)	Architecture
b)	Optimization
c)	Parallelism
d)	Itemset
217.	A leaf node in the hash tree contains
a)	Attributes
b)	Itemset
c)	Candidates
d)	Data
218.	One incremental approach,is based on the Apriori algorithm.
a)	CDA
b)	DDA
c)	fast update
d)	slow update
219.	A variation of generalized rules are association rules.
a)	Multiple-level
b)	Hierarchical-level
c)	Multi-level
d)	Hybrid-level
220.	A association rule is one that involves categorical and quantitative data.
a)	Categorical
b)	Qualitative Quantitative
c) d)	Spanning

221.	MIS stands for
a)	Medium item support
b)	Maximum item support
c)	Minimum item support
d)	Medium item scale
222.	Arule is defined as a set of itemsets that are correlated.
a)	Correlation
b)	Co-efficient
c)	MIS
d)	Modification
223.	Correlation(A=>B)=?
a)	P(A,B) / P(A)P(B)
b)	(b)P(A) / (P(A) P(B)
c)	P(B) / P(A) P(B)
d)	P(A) P(B) / P(A) - P(B)
224.	Conviction has a value of if A and B are not related.
a)	0
b)	1
c)	2
d)	$\infty$
225.	Which one is not an association rule algorithm?
a)	Apriori
b)	CDA
c)	DDA
d)	PAM
226.	algorithms may be able to adapt better to limited main memory.
a)	Divisive
b)	Sampling
c)	Partitioning
d)	Distributed
227.	During the scan, additional candidates are generated and counted.
a)	First
b)	Second
c)	Third
d)	Fourth

228.	Chi-squared statistic is denoted by thesymbol.
a)	X2
b)	E[X]
c)	2X
d)	X3
229.	are used to show the relationships between data items.
a)	Clustering
b)	Regression
c)	Association rules
d)	Classification
230.	The most two important property of an association rules are
a)	Support, confidence
b)	Itemset, data
c)	Neuron, gene
d)	Lift, interest
231.	A is defined as a set of itemsets that are correlated.
a)	Correlation rule
b)	Association rule
c)	Conviction
d)	Probability of correlation
232.	Confidence or strength are indicated by
a)	©
b)	®
c)	$\epsilon$
d)	α
233.	In association rule 1 stands for
a)	Large item sets in L
b)	Set of large item set
c)	Both a,b
d)	None of the above
234.	is the most well known association rule algorithm and is used in most commercial products.  Apriori algorithm
a) b)	Partition algorithm
c)	Distributed algorithm
d)	Pincer-search algorithm
u)	i moor-soarch argumini

235.	The basic idea of the apriori algorithm is to generate item sets of a particular size &
	scans the database.
a)	Candidate
b)	Primary
c)	Secondary
d)	Superkey
236.	The number of iterations in a priori
a)	Increases with the size of the maximum frequent set.
b)	Decreases with increase in size of the maximum frequent set.
c)	Increases with the size of the data.
d)	Decreases with the increase in size of the data.
237.	After the pruning of a priori algorithm, will remain.
a)	Only candidate set
b)	No candidate set
c)	Only border set
d)	No border set
238.	The a priori frequent itemset discovery algorithm moves in the lattice.
a)	Upward
b)	Downward
c)	Breadthwise
d)	Both upward and downward
239.	The step eliminates the extensions of (k-1)-itemsets which are not found to be frequent,
	from being considered for counting support.
a)	Candidate generation
b)	Pruning
c)	Partitioning
d)	Itemset eliminations
240.	The second phaase of A Priori algorithm is
a)	Candidate generation
b)	Itemset generation
c)	Pruning
d)	Partitioning
241.	The first phase of A Priori algorithm is
a)	Candidate generation
b)	Itemset generation Pruning
c) d)	Partitioning

242. The A Priori algorithm is a
a) top-down search
b) breadth first search
c) depth first search
d) bottom-up search
<ul><li>243. A priori algorithm is otherwise called as</li><li>a) width-wise algorithm</li></ul>
b) level-wise algorithm
c) pincer-search algorithm
d) FP growth algorithm
<ul><li>244. The right hand side of an association rule is called</li><li>a) Consequent</li></ul>
b) Onset
c) Antecedent
d) Precedent
<ul><li>245. The left hand side of an association rule is called</li><li>a) Consequent</li></ul>
b) Onset
c) Antecedent
d) Precedent
246. The value that says that transactions in D that support X also support Y is called  a) Confidence
b) Support
c) Support count
d) None Of the above
<ul><li>d) None Of the above</li><li>247. The absolute number of transactions supporting X in T is called</li><li>a) Confidence</li></ul>
247. The absolute number of transactions supporting X in T is called
<ul><li>247. The absolute number of transactions supporting X in T is called</li><li>a) Confidence</li></ul>
<ul><li>247. The absolute number of transactions supporting X in T is called</li><li>a) Confidence</li><li>b) Support</li></ul>
<ul> <li>247. The absolute number of transactions supporting X in T is called</li> <li>a) Confidence</li> <li>b) Support</li> <li>c) Support count</li> </ul>
<ul> <li>247. The absolute number of transactions supporting X in T is called</li> <li>a) Confidence</li> <li>b) Support</li> <li>c) Support count</li> <li>d) None Of the above</li> <li>248 are effective tools to attack the scalability problem.</li> </ul>
<ul> <li>247. The absolute number of transactions supporting X in T is called</li> <li>a) Confidence</li> <li>b) Support</li> <li>c) Support count</li> <li>d) None Of the above</li> <li>248 are effective tools to attack the scalability problem.</li> <li>a) Sampling</li> </ul>

		Segmentation	
		Visualization	
		Correction	
250		Association	
250.	In a)	Clustering	is used to know which URLs tend to be requested together.
	b)	Associations	
	c)	Sequential analysis	
	d)	Classification	

P.ARAVINDAN MCA, M.PHIL.

<b>ANSV</b>	<b>VER</b>	<b>KEY</b>
-------------	------------	------------

#### UNIT-I

1	A	2	С	3	С	4	A	5	С	6	A	7	В	8	A	9	С	10	A
11	D	12	D	13	A	14	A	15	D	16	В	17	A	18	A	19	С	20	С
21	В	22	В	23	A	24	С	25	В	26	A	27	С	28	A	29	A	30	A
31	D	32	С	33	В	34	D	35	В	36	D	37	D	38	В	39	D	40	В
41	A	42	A	43	D	44	С	45	В	46	A	47	A	48	D	49	A	50	D

# <u>UNIT-II</u>

51	A	52	В	53	D	54	A	55	В	56	C	57	A	58	A	59	A	60	A
61	С	62	В	63	С	64	A	65	В	66	С	67	D	68	В	69	В	70	С
71	С	72	В	73	A	74	С	75	С	76	В	77	В	78	С	79	В	80	A
81	A	82	В	83	A	84	С	85	В	86	С	87	В	88	A	89	В	90	A
91	С	92	A	93	A	94	В	95	С	96	С	97	D	98	В	99	В	100	A

# <u>UNIT-III</u>

101	В	102	A	103	D	104	A	105	C	106	A	107	D	108	С	109	A	110	С
111	В	112	A	113	В	114	D	115	В	116	С	117	В	118	С	119	D	120	Α
121	В	122	A	123	С	124	D	125	A	126	С	127	В	128	D	129	A	130	С
131	A	132	C	133	A	134	С	135	В	136	В	137	C	138	C	139	С	140	A
141	A	142	A	143	A	144	A	145	С	146	С	147	В	148	В	149	A	150	D

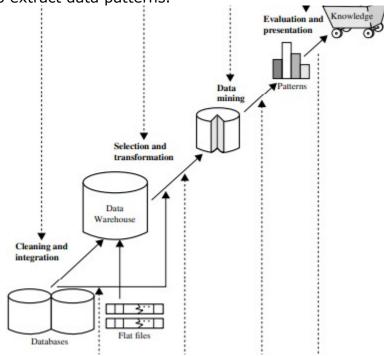
# **UNIT-IV**

151	C	152	A	153	D	154	C	155	В	156	В	157	C	158	В	159	A	160	C
161	В	162	D	163	С	164	В	165	D	166	С	167	A	168	В	169	В	170	A
171	С	172	D	173	В	174	D	175	A	176	A	177	В	178	С	179	В	180	D
181	С	182	В	183	С	184	A	185	В	186	A	187	С	188	A	189	В	190	С
191	A	192	С	193	С	194	A	195	A	196	В	197	A	198	В	199	A	200	В

### <u>UNIT-V</u>

201	В	202	В	203	D	204	С	205	С	206	D	207	С	208	В	209	D	210	С
211	В	212	D	213	С	214	A	215	D	216	В	217	С	218	С	219	A	220	С
221	С	222	A	223	A	224	В	225	D	226	A	227	В	228	A	229	С	230	A
231	A	232	D	233	A	234	A	235	A	236	A	237	В	238	A	239	В	240	С
241	A	242	В	243	A	244	С	245	A	246	A	247	С	248	С	249	D	250	В

1. ..... is an essential process where intelligent methods are applied to extract data patterns.



- A) Data warehousing
- **B)** Data mining
- C) Text mining
- D) Data selection
- 2. Data mining can also applied to other forms such as ......
- i) Data streams
- ii) Sequence data
- iii) Networked data
- iv) Text data
- v) Spatial data

A) i, ii, iii and v only
B) ii, iii, iv and v only
C) i, iii, iv and v only
D) All i, ii, iii, iv and v
3. Which of the following is not a data mining functionality?
A) Characterization and Discrimination
B) Classification and regression
C) Selection and interpretation
D) Clustering and Analysis
4 is a summarization of the general characteristics or features of a target class of data.
A) Data Characterization
B) Data Classification
C) Data discrimination
D) Data selection

5 is a comparison of the general features of the target class data objects against the general features of objects from one or multiple contrasting classes.
A) Data Characterization
B) Data Classification
C) Data discrimination
D) Data selection
6. Strategic value of data mining is
A) cost-sensitive
B) work-sensitive
C) time-sensitive
D) technical-sensitive
7 is the process of finding a model that describes and distinguishes data classes or concepts.
A) Data Characterization
B) Data Classification
C) Data discrimination

D) Data selection
8. The various aspects of data mining methodologies is/are
i) Mining various and new kinds of knowledge
ii) Mining knowledge in multidimensional space
iii) Pattern evaluation and pattern or constraint-guided mining.
iv) Handling uncertainty, noise, or incompleteness of data
A) i, ii and iv only
B) ii, iii and iv only
C) i, ii and iii only
D) All i, ii, iii and iv
9. The full form of KDD is
A) Knowledge Database
B) Knowledge Discovery Database
C) Knowledge Data House
D) Knowledge Data Definition

- 10. The out put of KDD is ......A) DataB) InformationC) Query
- D) Useful information

## Data Warhouse & Data Mining 700 - MCQ's

# **TOPIC ONE – INTRODUCTION TO DATA MINING**

## **EASY QUESTIONS**

1.Data mining is an integral part of
A. SE.
B. DBMS.
C. KDD.
D. OS.
ANSWER: C
2 is a subject-oriented, integrated, time-variant, non-volatile collection of data in
support of management decisions.
A. Data Mining.
B. Data Warehousing.
C. Web Mining.
D. Text Mining.
ANSWER: B
3. KDD describes the
A. whole process of extraction of knowledge from data
B. extraction of data
C. extraction of information
D. extraction of rules
ANSWER: A
4. The data Warehouse is
A. read only.
B. write only.
C. read write only.
D. none.
ANSWER: A
5. Expansion for DSS in DW is
A. Decision Support system.
B. Decision Single System.
C. Data Storable System.
D. Data Support System.
ANSWER: A
6. The important aspect of the data warehouse environment is that data found within the data
warehouse is
A. subject-oriented.
B. time-variant.
C. integrated.
D. All of the above.
ANSWER: D

7. The data is stored, retrieved & updated in
A. OLAP.
B. OLTP.
C. SMTP.
D. FTP.
ANSWER: B
ANSWEN. D
8describes the data contained in the data warehouse.
A. Relational data.
B. Operational data.
C. Metadata.
D. Informational data.
ANSWER: C
9predicts future trends &behaviors, allowing business managers to make
proactive,knowledge-driven decisions.
A. Data warehouse.
B. Data mining.
C. Datamarts.
D. Metadata.
ANSWER: B
10 is the heart of the warehouse.
A. Data mining database servers.
B. Data warehouse database servers.
C. Data mart database servers.
D. Relational data base servers.
ANSWER: B
11 defines the structure of the data held in operational databases and used
byoperational applications.
A. User-level metadata.
B. Data warehouse metadata.
C. Operational metadata.
D. Data mining metadata.
ANSWER: C
12 is held in the catalog of the warehouse database system.
A. Application level metadata.
··
B. Algorithmic level metadata.
C. Departmental level metadata.
D. Core warehouse metadata.
ANSWER: B
13maps the core warehouse metadata to business concepts, familiar and useful to end
users.
A. Application level metadata.
B. User level metadata.
C. Enduser level metadata.
D. Core level metadata.
ANSWER: A

14. Data can be updated inenvironment.
A. data warehouse.
B. data mining.
C. operational.
D. informational.
ANSWER: C
45.0
15. Record cannot be updated in
A. OLTP
B. files
C. RDBMS
D. data warehouse
ANSWER: D
7 WOVELL B
16. Detail data in single fact table is otherwise known as
A. monoatomic data.
B. diatomic data.
C. atomic data.
D. multiatomic data.
ANSWER: C
17. A data warehouse is
A. updated by end users.
B. contains numerous naming conventions and formats
C. organized around important subject areas.
D. contains only current data.
ANSWER: C
40 Salata da Lalata
18 is data about data.
A. Metadata.
D. Minus data
B. Microdata.
C. Minidata.
C. Minidata.  D. Multidata.
C. Minidata.
C. Minidata.  D. Multidata.  ANSWER: A
C. Minidata.  D. Multidata.  ANSWER: A  19 is an important functional component of the metadata.
C. Minidata.  D. Multidata.  ANSWER: A  19 is an important functional component of the metadata.  A. Digital directory.
C. Minidata.  D. Multidata.  ANSWER: A  19 is an important functional component of the metadata.  A. Digital directory.  B. Repository.
C. Minidata.  D. Multidata.  ANSWER: A  19 is an important functional component of the metadata.  A. Digital directory.  B. Repository.  C. Information directory.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary.
C. Minidata.  D. Multidata.  ANSWER: A  19 is an important functional component of the metadata.  A. Digital directory.  B. Repository.  C. Information directory.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C
C. Minidata.  D. Multidata.  ANSWER: A  19 is an important functional component of the metadata.  A. Digital directory.  B. Repository.  C. Information directory.  D. Data dictionary.  ANSWER: C  20. The term that is not associated with data cleaning process is  A. domain consistency.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation. D. segmentation.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation. D. segmentation. ANSWER: D
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation. D. segmentation. ANSWER: D
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation. D. segmentation. ANSWER: D  21. Capability of data mining is to build models. A. retrospective.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation. D. segmentation. ANSWER: D  21. Capability of data mining is to build models. A. retrospective. B. interrogative.
C. Minidata. D. Multidata. ANSWER: A  19 is an important functional component of the metadata. A. Digital directory. B. Repository. C. Information directory. D. Data dictionary. ANSWER: C  20. The term that is not associated with data cleaning process is A. domain consistency. B. deduplication. C. disambiguation. D. segmentation. ANSWER: D  21. Capability of data mining is to build models. A. retrospective.

ANSWER: C
22 is a process of determining the preference of customer's majority.  A. Association.  B. Preferencing.  C. Segmentation.  D. Classification.  ANSWER: B
23. Exceptional reporting in data warehousing is otherwise called as  A. exception.  B. alerts. C. errors. D. bugs. ANSWER: B
24. The full form of KDD is  A. Knowledge database.  B. Knowledge discovery in database.  C. Knowledge data house.  D. Knowledge data definition.  ANSWER: B
25. Removing duplicate records is a process called  A. recovery.  B. data cleaning.  C. data cleansing.  D. data pruning.  ANSWER: B
26 helps to integrate, maintain and view the contents of the data warehousing system.  A. Business directory.  B. Information directory.  C. Data dictionary.  D. Database.  ANSWER: B
27. Discovery of cross-sales opportunities is called  A. segmentation.  B. visualization.  C. correction.  D. association.  ANSWER: D
28. Data marts that incorporate data mining tools to extract sets of data are called  A. independent data mart.  B. dependent data marts.  C. intra-entry data mart.  D. inter-entry data mart.  ANSWER: B

<ul> <li>29. A directory to help the DSS analyst locate the contents of the data warehouse is seen in</li> <li>A. Current detail data.</li> <li>B. Lightly summarized data.</li> <li>C. Metadata.</li> <li>D. Older detail data.</li> <li>ANSWER: C</li> </ul>
<ul> <li>30. Which of the following is not an old detail storage medium?</li> <li>A. Phot Optical Storage.</li> <li>B. RAID.</li> <li>C. Microfinche.</li> <li>D. Pen drive.</li> <li>ANSWER: D</li> </ul>
31. The dimension tables describe the A. entities. B. facts. C. keys. D. units of measures. ANSWER: B
<ul> <li>32. Which of the following is not the other name of Data mining?</li> <li>A. Exploratory data analysis.</li> <li>B. Data driven discovery.</li> <li>C. Deductive learning.</li> <li>D. Data integration.</li> <li>ANSWER: D</li> </ul>
33. Which of the following is a predictive model? A. Clustering. B. Regression. C. Summarization. D. Association rules. ANSWER: B
34. Which of the following is a descriptive model? A. Classification. B. Regression. C. Sequence discovery. D. Association rules. ANSWER: C
35. A model identifies patterns or relationships.  A. Descriptive.  B. Predictive.  C. Regression.  D. Time series analysis.  ANSWER: A
36. A predictive model makes use of  A. current data.  B. historical data.

C. both current and historical data.

D. assumptions.

ANSWER: B
<ul> <li>37 maps data into predefined groups.</li> <li>A. Regression.</li> <li>B. Time series analysis</li> <li>C. Prediction.</li> <li>D. Classification.</li> <li>ANSWER: D</li> </ul>
<ul> <li>38 is used to map a data item to a real valued prediction variable.</li> <li>A. Regression.</li> <li>B. Time series analysis.</li> <li>C. Prediction.</li> <li>D. Classification.</li> <li>ANSWER: B</li> </ul>
<ul> <li>39. In, the value of an attribute is examined as it varies over time</li> <li>A. Regression.</li> <li>B. Time series analysis.</li> <li>C. Sequence discovery.</li> <li>D. Prediction.</li> <li>ANSWER: B</li> </ul>
40. In the groups are not predefined. A. Association rules. B. Summarization. C. Clustering. D. Prediction. ANSWER: C
41 is the input to KDD.  A. Data.  B. Information.  C. Query.  D. Process.  ANSWER: A
42. The output of KDD is  A. Data.  B. Information.  C. Query.  D. Useful information.  ANSWER: D
43. The KDD process consists of steps. A. three. B. four. C. five. D. six.

ANSWER: C

44. Treating incorrect or missing data is called as
A. selection.
B. preprocessing. C. transformation.
D. interpretation.
ANSWER: B
ANOWEN. B
45. Converting data from different sources into a common format for processing is called as
A. selection.
B. preprocessing.
C. transformation.
D. interpretation.
ANSWER: C
46. Various visualization techniques are used in step of KDD.
A. selection.
B. transformaion.
C. data mining.
D. interpretation.
ANSWER: D
47. Extreme values that occur infrequently are called as
A. outliers. B. rare values.
C. dimensionality reduction.
D. Inliers
ANSWER: A
48. Box plot and scatter diagram techniques are
A. Graphical.
B. Geometric.
C. Icon-based.
D. Pixel-based.
ANSWER: B
49 is used to proceed from very specific knowledge to more general information.  A. Induction.
B. Compression.
C. Approximation.
D. Substitution.
ANSWER: A
50. Describing some characteristics of a set of data by a general model is viewed as A. Induction.
B. Compression.
C. Approximation.
D. Summarization.
ANSWER: B
51 helps to uncover hidden information about the data.  A. Induction.
B. Compression.
C. Approximation.

D. Summarization. ANSWER: C
52. Incorrect or invalid data is known as A. changing data. B. noisy data. C. outliers. D. missing data. ANSWER: B
53. The of data could result in the disclosure of information that is deemed to be confidential.  A. authorized use.  B. unauthorized use.  C. authenticated use.  D. unauthenticated use.  ANSWER: B
54 data are noisy and have many missing attribute values.  A. Preprocessed.  B. Cleaned.  C. Real-world.  D. Transformed.  ANSWER: C
55 describes the discovery of useful information from the web contents.  A. Web content mining.  B. Web structure mining.  C. Web usage mining.  D. Web development.  ANSWER: A
<ul> <li>56 is concerned with discovering the model underlying the link structures of the web.</li> <li>A. Web content mining.</li> <li>B. Web structure mining.</li> <li>C. Web usage mining.</li> <li>D. Web development.</li> <li>ANSWER: B</li> </ul>
<ul> <li>57. A algorithm takes all the data at once and tries to create a hypothesis based on this data.</li> <li>A. supervised.</li> <li>B. batch learning.</li> <li>C. unsupervised.</li> <li>D. incremental learning.</li> <li>ANSWER: B</li> </ul>
58. A algorithm takes a new piece of information at each learning cycle and tries to revise the theory using new data.  A. supervised.  B. batch learning.  C. unsupervised.  D. incremental learning.  ANSWER: B

A. SQL. B. KDD. C. Data mini D. Sybase. ANSWER: C	is used to find the vaguely known data.
60. The easie	est way to gain access to the data and facilitate effective decision making is to set up a
A. database.	
B. data mart.	
C. data warel	
D. operationa	al.
ANSWER: C	
	ocal data warehouse is called as
A. data mart.	
B. database.	
C. data mode	
D. meta data ANSWER: B	•
ANSWER. D	
62. The	data are stored in data warehouse.
A. operationa	
B. historical.	
C. transaction	nal.
D. optimized	
ANSWER: B	
	n support system is a system that
	intly change over time.
B. cannot cha	
C. copies the	
D. supports t ANSWER: A	ne system.
ANSWEN. A	
64. Metadata	a is used by the end users for
A. managing	·
B. structuring	
C. querying p	
D. making de	
ANSWER: C	
65 TI	
	techniques are used to load information from operational database to data
warehouse.	vin a
A. reenginee B. reverse.	illig.
C. transfer.	
D. replication	
ANSWER: D	

A. observation B. theory C. analysis D. prediction ANSWER: C
<ul> <li>67. Information content is closely related to and transparency.</li> <li>A. algorithm.</li> <li>B. search space.</li> <li>C. learning.</li> <li>D. statistical significance.</li> <li>ANSWER: D</li> </ul>
<ul> <li>68. The is used to express the hypothesis describing the concept.</li> <li>A. computer language.</li> <li>B. algorithm.</li> <li>C. definition.</li> <li>D. theory</li> <li>ANSWER: A</li> </ul>
<ul> <li>69. A definition of a concept is complete if it recognizes</li> <li>A. all the information.</li> <li>B. all the instances of a concept.</li> <li>C. only positive examples.</li> <li>D. negative examples.</li> <li>ANSWER: B</li> </ul>
<ul> <li>70. The results of machine learning algorithms are always have to be checked for their</li> <li>A. observations.</li> <li>B. calculations</li> <li>C. programs.</li> <li>D. statistical relevance.</li> <li>ANSWER: D</li> </ul>
71. A is necessary condition for KDDs effective implement. A. data set. B. database. C. data warehouse. D. data. ANSWER: C
72. KDD is a A. new technology that is use to store data. B. multidisciplinary field of research. C. database technology. D. expert system. ANSWER: B

#### **INTERMEDIATE QUESTIONS**

73. The generic two-level data warehouse architecture includes  A. at least one data mart.  B. data that can extracted from numerous internal and external sources.  C. near real-time updates.  D. far real-time updates.  ANSWER: C
<ul> <li>74. Reconciled data is</li> <li>A. data stored in the various operational systems throughout the organization.</li> <li>B. current data intended to be the single source for all decision support systems.</li> <li>C. data stored in one operational system in the organization.</li> <li>D. data that has been selected and formatted for end-user support applications.</li> <li>ANSWER: B</li> </ul>
75. Transient data is
A. data in which changes to existing records cause the previous version of the records to be
eliminated.  B. data in which changes to existing records do not cause the previous version of the records to be eliminated.
C. data that are never altered or deleted once they have been added. D. data that are never deleted once they have been added. ANSWER: A
<ul> <li>76. The extract process is</li> <li>A. capturing all of the data contained in various operational systems.</li> <li>B. capturing a subset of the data contained in various operational systems.</li> <li>C. capturing all of the data contained in various decision support systems.</li> <li>D. capturing a subset of the data contained in various decision support systems.</li> <li>ANSWER: B</li> </ul>
77. Data transformation includes
A. a process to change data from a detailed level to a summary level.
B. a process to change data from a summary level to a detailed level.
C. joining data from one source into various sources of data.
D. separating data from one source into various sources of data.  ANSWER: A
78 is the goal of data mining.
A. To explain some observed event or condition.
B. To confirm that data exists.
C. To analyze data for expected relationships.
D. To create a new data warehouse.
ANSWER: A
79. Business Intelligence and data warehousing is not used for
A. Forecasting.
B. Data Mining.
C. Analysis of large volumes of product sales data.
D. Discarding data. ANSWER: D
/ INSVERLED

80. Classification rules are extracted from
A. root node.
B. decision tree.
C. siblings.
D. branches.
ANSWER: B
81. Reducing the number of attributes to solve the high dimensionality problem is called as
A. dimensionality curse.
B. dimensionality reduction.
C. cleaning.
D. Overfitting.
ANSWER: B
82. Data that are not of interest to the data mining task is called as
A. missing data.
B. changing data.
C. irrelevant data.
D. noisy data.
ANSWER: C
83. Data mining helps in
A. inventory finalisation.
B. sales.
C. marketing products.
D. Debt collection.
ANSWER: A
84. Which of the following is not a desirable feature of any efficient algorithm?
A. to reduce number of input operations.
B. to reduce number of output operations.
C. to be efficient in computing.
D. to have maximal code length.  ANSWER: D
ANSWER. D
85. All set of items whose support is greater than the user-specified minimum support are called as
A. border set.
B. frequent set.
C. maximal frequent set.
D. lattice.
ANSWER: B
86. Metadata describes
A. contents of database.
B. structure of contents of database.
C. structure of database.
D. database itself.
ANSWER: B
OT The continue of a continue continue of
87. The partition of overall data warehouse is
A. database.
B. data cube.  C. data mart.
C. data mart.

D. operational data. ANSWER: C
88. The information on two attributes is displayed in in scatter diagram.  A. visualization space.  B. scatter space.  C. cartesian space.  D. interactive space.  ANSWER: C
89. OLAP is used to explore the knowledge. A. shallow. B. deep. C. multidimensional. D. hidden. ANSWER: C
90. Hidden knowledge can be found by using A. searching algorithm. B. pattern recognition algorithm. C. searching algorithm. D. clues. ANSWER: B
91. The next stage to data selection in KDD process  A. enrichment.  B. coding.  C. cleaning.  D. reporting.  ANSWER: C
92. Enrichment means  A. adding external data.  B. deleting data.  C. cleaning data.  D. selecting the data.  ANSWER: A
93. The decision support system is used only for A. cleaning. B. coding. C. selecting. D. queries. ANSWER: D
94. Which of the following is closely related to statistical significance and transparency? A. Classification Accuracy. B. Transparency. C. Statistical significance. D. Search Complexity. ANSWER: B

95 is the technique which is used for discovering patterns in dataset at the beginning of data mining process.  A. Kohenon map.  B. Visualization.  C. OLAP.  D. SQL.  ANSWER: B
<ul> <li>96 is the heart of knowledge discovery in database process.</li> <li>A. Selection.</li> <li>B. Data ware house.</li> <li>C. Data mining.</li> <li>D. Creative coding.</li> <li>ANSWER: D</li> </ul>
97. In KDD and data mining, noise is referred to as  A. repeated data.  B. complex data.  C. meta data.  D. random errors in database.  ANSWER: D
98. The technique of learning by generalizing from examples is  A. incremental learning.  B. inductive learning.  C. hybrid learning.  D. generalized learning.  ANSWER: B
<ul> <li>99. The plays an important role in artificial intelligence.</li> <li>A. programming skill.</li> <li>B. scheduling.</li> <li>C. planning.</li> <li>D. learning capabilities.</li> <li>ANSWER: D</li> </ul>
<ul> <li>100. Data mining is used to refer stage in knowledge discovery in database.</li> <li>A. selection.</li> <li>B. retrieving.</li> <li>C. discovery.</li> <li>D. coding.</li> <li>ANSWER: C</li> </ul>
101 could generate rule automatically. A. KDD. B. machine learning. C. artificial intelligence. D. expert system. ANSWER: B
<ul> <li>102. A good introduction to machine learning is the idea of</li> <li>A. concept learning.</li> <li>B. content learning.</li> <li>C. theory of falsification.</li> </ul>

D. Poppers law. ANSWER: A
<ul> <li>103. The algorithms that are controlled by human during their execution is algorithm.</li> <li>A. unsupervised.</li> <li>B. supervised.</li> <li>C. batch learning.</li> <li>D. incremental.</li> <li>ANSWER: B</li> </ul>
104. Background knowledge depends on the form of  A. theoretical knowledge.  B. hypothesis.  C. formulae.  D. knowledge representation.  ANSWER: D
ADVANCED QUESTIONS
105. Dimensionality reduction reduces the data set size by removing  A. relevant attributes.  B. irrelevant attributes.  C. derived attributes.  D. composite attributes.  ANSWER: B
<ul> <li>106. The main organizational justification for implementing a data warehouse is to provide</li></ul>
107. Multidimensional database is otherwise known as  A. RDBMS  B. DBMS  C. EXTENDED RDBMS  D. EXTENDED DBMS  ANSWER: B
108 are designed to overcome any limitations placed on the warehouse by the nature of therelational data model.  A. Operational database.  B. Relational database.  C. Multidimensional database.  D. Data repository.  ANSWER: C
<ul> <li>109. If a set is a frequent set and no superset of this set is a frequent set, then it is called</li> <li>A. maximal frequent set.</li> <li>B. border set.</li> <li>C. lattice.</li> </ul>

D. infrequent sets.

ANSWER: A
<ul> <li>110. The goal of is to discover both the dense and sparse regions of a data set.</li> <li>A. Association rule.</li> <li>B. Classification.</li> <li>C. Clustering.</li> <li>D. Genetic Algorithm.</li> <li>ANSWER: C</li> </ul>
<ul> <li>111. Rule based classification algorithms generate rule to perform the classification.</li> <li>A. if-then.</li> <li>B. while.</li> <li>C. do while.</li> <li>D. switch.</li> <li>ANSWER: A</li> </ul>
<ul> <li>112 training may be used when a clear link between input data sets and target output valuesdoes not exist.</li> <li>A. Competitive.</li> <li>B. Perception.</li> <li>C. Supervised.</li> <li>D. Unsupervised.</li> <li>ANSWER: D</li> </ul>
113. Web content mining describes the discovery of useful information from thecontents.  A. text.  B. web.  C. page.  D. level.  ANSWER: B
114. Research on mining multi-types of data is termed as data.  A. graphics.  B. multimedia.  C. meta.  D. digital.  ANSWER: B
115 is the way of studying the web link structure.  A. Computer network.  B. Physical network.  C. Social network.  D. Logical network.  ANSWER: C
<ul> <li>116. In web mining, is used to find natural groupings of users, pages, etc.</li> <li>A. clustering.</li> <li>B. associations.</li> <li>C. sequential analysis.</li> <li>D. classification.</li> <li>ANSWER: A</li> </ul>

117. In web mining, is used to know which URLs tend to be requested together.
A. clustering.
B. associations.
C. sequential analysis. D. classification.
ANSWER: B
ANSWER. B
118. The engine for a data warehouse supports query-triggered usage of data
A. NNTP
B. SMTP
C. OLAP
D. POP
ANSWER: C
119 displays of data such as maps, charts and other graphical representation allow data to be presented compactly to the users.  A. Hidden  B. Visual  C. Obscured  D. Concealed  ANSWER: B
<ul> <li>120. Which of the following are the important qualities of good learning algorithm.</li> <li>A. Consistent, Complete.</li> <li>B. Information content, Complex.</li> <li>C. Complete, Complex.</li> <li>D. Transparent, Complex.</li> <li>ANSWER: A</li> </ul>
<u>TOPIC TWO – GETTING TO KNOW YOUR DATA</u> EASY QUESTIONS
121. The is a symbolic representation of facts or ideas from which information can
potentially be extracted.  A. knowledge.
B. data.
C. algorithm.
D. program.
ANSWER: B
122. A collection of interesting and useful patterns in database is called
A. knowledge.  B. information.
C. data.
D. algorithm.
ANSWER: A
123. The main organizational justification for implementing a data warehouse is to provide
A. cheaper ways of handling transportation.
B. decision support.
C. storing large volume of data.
D. access to data.
ANSWER: C

represent it inknowledge based system is  A. re-engineering.  B. replication.  C. knowledge engineering.  D. reverse engineering.  ANSWER: C
125. OR methods deals withtype of data.  A. quantitative.  B. qualitative.  C. standard.  D. predict.  ANSWER: A
<ul> <li>126analysis divides data into groups that are meaningful, useful, or both.</li> <li>A. Cluster.</li> <li>B. Association.</li> <li>C. Classifiction.</li> <li>D. Relation.</li> <li>ANSWER: A</li> </ul>
<ul> <li>127. A representation of data objects as columns and attributes as rows is called</li> <li>A. matrix.</li> <li>B. data matrix.</li> <li>C. table.</li> <li>D. file.</li> <li>ANSWER: B</li> </ul>
128. Which of the following is not a data mining attribute? A. nominal. B. ordinal. C. interval. D. multiple. ANSWER: D
129. Patterns of machine-language program are  A. definitive theories.  B. hypothesis.  C. not-definitive theories.  D. quantitative.  ANSWER: B
130. Nominal and ordinal attributes are collectively referred to as attributes.  A. qualitative.  B. perfect.  C. consistent.  D. optimized.  ANSWER: A
131. A data set can often be viewed as a collection of  A. data mart.

B. data.

C. data object.  D. template.  ANSWER: C
132. An important element in machine learning is  A. flow.  B. knowledge.  C. observation.  D. language.  ANSWER: C
133 is the closeness of repeated measurements to one another.  A. Precision.  B. Bias.  C. Accuracy.  D. non-scientific.  ANSWER: A  ANSWER: B
134. Which of the following is not a data mining attribute? A. nominal. B. ordinal. C. interval. D. multiple. ANSWER: D
135. Patterns of machine-language program are  A. definitive theories.  B. hypothesis.  C. not-definitive theories.  D. quantitative.  ANSWER: B
136. Nominal and ordinal attributes are collectively referred to as attributes.  A. qualitative. B. perfect. C. consistent. D. optimized. ANSWER: A
137. A data set can often be viewed as a collection of  A. data mart.  B. data.  C. data object.  D. template.  ANSWER: C
<ul><li>138. An important element in machine learning is</li><li>A. flow.</li><li>B. knowledge.</li><li>C. observation.</li><li>D. language.</li></ul>

ANSWER: C

139	is used for discrete target variable.
A. Nominal.	
B. Classification.	
C. Clustering.	
D. Association.	
ANSWER: B	
_	a mining includes which of the following?
	<mark>e observed event or condition</mark>
B. To confirm that	
	for expected relationships
D. To create a new	data warehouse
ANSWER: A	
141. is a subject-or	riented, integrated, time-variant, nonvolatile collection of data in supportof
management decis	
A. Data Mining.	
B. Data Warehous	ing.
C. Web Mining.	
D. Text Mining.	
ANSWER: B	
142 Collection on	alveis interpretation or evaluation of data
A. Statistics	alysis, interpretation or explanation of data.
B. Information reti	rieval
C. Data mining	icvai
D. Cluster analysis	
Answer: A	
143. Data objects	represesents
A. Values	
B. Entity	
C. Data	
D. Attributes	
Answer : B	
INITEDME	DIATE QUESTIONS
INTERIVIEL	DIATE QUESTIONS
144. The term that	t is not associated with data cleaning process is
A. domain consista	ance.
B. de-duplication.	
C. disambiguation.	
D. segmentation.	
ANSWER: D	
The is a use	ful method of discovering patterns at the beginning of data mining process.
A. calculating dista	
B. visualization ted	
C. decision trees.	
D. association rules.	

ANSWER: B

<ul> <li>145. Data mining methodology states that in optimal situation data mining is an</li> <li>A. standard process.</li> <li>B. complete process.</li> <li>C. creative process.</li> <li>D. ongoing process.</li> <li>ANSWER: D</li> </ul>
146 is a knowledge discovery process.  A. Data cleaning.  B. Data warehousing.  C. Data mining.  D. Data transformation.  ANSWER: A
147. OLAP is used for  A. online application processing.  B. online analytical processing.  C. online aptitude processing.  D. online administration and processing.  ANSWER: B
<ul> <li>148. Which of the following is not an issue related to concept learning</li> <li>A. Supervised learning.</li> <li>B. Unsupervised learning.</li> <li>C. Self learning.</li> <li>D. Concept learning.</li> <li>ANSWER: D</li> </ul>
149. Removing duplicate records is a process called  A. recovery.  B. data cleaning.  C. data cleansing.  D. data pruning.  ANSWER: B
150. Data marts that incorporate data mining tools to extract sets of data is called  A. independent data mart.  B. dependent data marts.  C. intra-entry data mart.  D. inter-entry data mart.  ANSWER: B
151. The problem of finding hidden structure in unlabelled data is called  A. Supervised learning  B. Unsupervised learning  C. Reinforcement learning  D. Semisupervised learning  ANSWER: B
152. Task of inferring a model from labelled training data is called A. Supervised learning B. Unsupervised learning

C. Reinforcement learning

D. Semisupervised learning ANSWER : B
153. Self-organizing maps are an example of  A. Supervised learning  B. Unsupervised learning  C. Reinforcement learning  D. Missing data imputation  ANSWER: A
154. The time horizon in Data warehouse is usually A. 1-2 years. B. 3-4years. C. 5-6 years. D. 5-10 years. ANSWER: D
155. Classification rules are extracted from A. root node B. decision tree. C. siblings. D. branches. ANSWER: B
<ul> <li>156. Which one of the following is not a part of empirical cycle in scientific research?</li> <li>A. Observation</li> <li>B. Theory.</li> <li>C. Self learning.</li> <li>D. Prediction.</li> <li>ANSWER: C</li> </ul>
157. In machine learning phase try to find the patterns from observations.  A. observation  B. theory  C. analysis  D. prediction  ANSWER: C
158. ANSWER: D  Data warehouse architecture is based on  A. DBMS.  B. RDBMS.  C. Sybase.  D. SQL Server.  ANSWER: B
ADVANCED QUESTIONS
159. The algorithm can be applied in cleaning data.  A. search.  B. pattern recognition.  C. learning.  D. clustering.  ANSWER: B

160 is the type of pollution that is difficult to trace.
A. Duplication of records.
B. Ambiguition.
C. Lack of domain consistency.
D. Lack of information.
ANSWER: C
161. The statement that is true about data mining is
A. data mining is not a single technique.
B. it finds the hidden patterns from data set.
C. it is a real discovery process.
D. all forms of pollutions are found during the data mining stage itself.
ANSWER: D
162. The first step in data mining project is
A. rough analysis of data set using traditional query tools.
B. cleaning the data.
C. recognizing the patterns.
D. visualizing the patterns.
ANSWER: A
163. SQL can find type of data.
A. narrow data.
B. multidimensional data.
C. shallow data.
D. hidden data.
ANSWER: C
/ NOWEN. C
164 is used to find relationship between multidimensional data.
A. K-nearest neighbor.
B. Decision trees.
C. Association rules.
D. OLAP tools.
ANSWER: D
1CE Which are of the following is not true about OLAD?
165. Which one of the following is not true about OLAP?
A. They create no new knowledge.
B. OLAP is powerful that data mining tool.
C. They cannot search for new solution.
D. OLAP tool store their data in special multidimensional format.
ANSWER: B
166. Genetic algorithm is viewed as a kind of
A. meta learning strategy.
B. machine learning.
C. evolution.
D. OLAP tool.
ANSWER: A
467 The State of the Heat works 6 11 11 11 11 11 11 11 11
167. The is a knowledge that can be found by using pattern recognition algorithm.
A. hidden knowledge.
B. deep.
C. shallow.

D. multidimensional. ANSWER: A
<ul> <li>168. Shannons notation of information content of message is</li> <li>A. Log 1divided by n equals log n.</li> <li>B. log n equals log 1divided by n.</li> <li>C. log 1divided by n equals minus log n.</li> <li>D. log minus n = log 1divided by n.</li> <li>ANSWER: C</li> </ul>
<ul> <li>169. Which of the following features usually applies to data in a data warehouse</li> <li>A. Data are often deleted.</li> <li>B. Most applications consist of transactions.</li> <li>C. Data are rarely deleted.</li> <li>D. Relatively few records are processed by applications.</li> <li>ANSWER: C</li> </ul>
170. Which of the following is true  A. The data warehouse consists of data marts and operational data  B. The Data Warehouse consists of data marts and application data.  C. The Data Warehouse is used as a source for the operational data.  D. The operational data are used as a source for the data warehouse ANSWER: D
<ul> <li>171. How do you better define a data warehouse as</li> <li>A. Can be updated by end users.</li> <li>B. Contains numerous naming conventions and formats.</li> <li>C. Organized around important subject areas.</li> <li>D. Contains only current data.</li> <li>ANSWER: C</li> </ul>
172. Which of the following is an operational system  A. A system that is used to run the business in real time and is based on historical data  B. A system that is used to run the business in real time and is based on current data.
C. A system that is used to support decision making and is based on current data.  D. A system that is used to support decision making and is based on historical data.  ANSWER: B
173. The generic two-level data warehouse architecture includes  A. at least one data mart.
B. data that can extracted from numerous internal and external sources.
C. near off-time updates.
D. historic data. ANSWER: B
<ul> <li>174. Which of the following is reconciled data</li> <li>A. Current data intended to be the single source for all decision support systems</li> <li>B. Data stored in the various operational systems throughout the organization.</li> <li>C. Data stored in one operational system in the organization.</li> <li>D. Data that has been selected and formatted for end-user support applications.</li> </ul>

ANSWER: A

- 175. Which of the following is an extract process
- A. Capturing all of the data contained in various operational systems.
- B. Capturing a subset of the data contained in various operational systems.
- C. Capturing all of the data contained in various decision support systems.
- D. Capturing a subset of the data contained in various decision support systems.

ANSWER: B

- 176. Which of the following is the not a types of clustering?
- A. K-means.
- B. Hiearachical.
- C. Partitional.
- D. Splitting.

ANSWER: D

177. Data Transformation includes .

#### A. a process to change data from a detailed level to a summary level.

- B. a process to change data from a summary level to a suffillary level.
- C. joining data from one source into various sources of data.
- D. separating data from one source into various sources of data.

ANSWER: A

178. The \_\_\_\_\_\_ is called a multi field transformation.

- A. conversion of data from one field into multiple fields.
- B. conversion of data from fields into field.
- C. conversion of data from double fields into multiple fields
- D. conversion of data from one field to one field.

ANSWER: A

- 179. Which of the given technology is not well-suited for data mining
- A. Expert system technology.
- B. Data visualization.
- C. Technology limited to specific data types such as numeric data types.
- D. Parallel architecture.

ANSWER: C

- 180. What is true about the multidimensional model?
- A. It typically requires less disk storage.
- B. It typically requires more disk storage.
- C. Typical business queries requiring aggregate functions take more time.
- D. Typical business queries requiring aggregate functions take more time.

ANSWER: B

- 181. Which of the following function involves data cleaning, data standardizing and summarizing
- A. Storing data.
- B. Transforming data.
- C. Data acquisition.
- D. Data Access.

ANSWER: B

- 182. Which of the following problems bog down the development of data mining projects
- A. Financial problem.
- B. Lack of technical assistance.
- C. Lack of long-term vision.

D. Legal and privacy restrictions.  ANSWER: C
<ul> <li>183 is the closeness of repeated measurements to one another.</li> <li>A. Precision.</li> <li>B. Bias.</li> <li>C. Accuracy.</li> <li>D. non-scientific.</li> <li>ANSWER: A</li> </ul>
<ul> <li>184. Which of the following matrix consist asymmetric data?</li> <li>A. Sparse data matrix.</li> <li>B. Indentity matrix.</li> <li>C. Confusion matrix.</li> <li>D. Cross matrix.</li> <li>ANSWER: A</li> </ul>
<ul> <li>185. Which of the following matrix consist asymmetric data?</li> <li>A. Sparse data matrix.</li> <li>B. Indentity matrix.</li> <li>C. Confusion matrix.</li> <li>D. Cross matrix.</li> <li>ANSWER: A</li> </ul>
186. You are given data about seismic activity in Japan, and you want to predict a magnitude of the next earthquake, this is an example of Supervised learning Unsupervised learning Serration Dimensionality reduction ANSWER: A
187. Algoritm is
A. It uses machine-learning technique. Here a program can learn from past experience.  B. Computational procedure that takes some values as input and procedure takes some value as output  C. Science of making machines perform tasks that would require intelligence when performed by humans  D. Processing procedure  ANSWER: A
188. The information on two attributes is displayed in in scatter diagram.  A. visualization space.  B. scatter space.  C. cartesian space.  D. interactive space.  ANSWER: C
189. K-nearest neighbor is one of the  A. learning technique.  B. OLAP tool.  C. purest search technique.  D. data warehousing tool.

ANSWER: C 190. In K- nearest neighbor the input is translated to \_\_\_\_\_\_. A. values B. points in multidimensional space C. strings of characters D. nodes ANSWER: B 191. What is a tag cloud? A. Is a visualization of statistics of user-preferred order. B. Collection of data objects. C. Data analysis D. Data mining application Answer: A 192. Analysis of variance is a statistical method of comparing the \_\_\_\_\_\_ of several populations. A. standard deviations B. variances C. means D. proportions Answer: A 193. is the specialized data warehouse database. A. Oracle. B. DBZ. C. Informix. D. Redbrick. ANSWER: D 194. The source of all data warehouse data is the\_\_\_\_\_. A. operational environment. B. informal environment. C. formal environment. D. technology environment. ANSWER: A 195. Which of the following is a descriptive model? A. Classification. B. Regression. C. Sequence discovery. D. Association rules. ANSWER: C

196. A \_\_\_\_\_ model identifies patterns or relationships.

A. Descriptive.
B. Predictive.
C. Regression.

ANSWER: A

D. Time series analysis.



# Dr.G.R.Damodaran College of Science

(Autonomous, affiliated to the Bharathiar University, recognized by the UGC)Reaccredited at the 'A' Grade Level by the **NAAC** and ISO 9001:2008 Certified CRISL rated 'A' (TN) for MBA and MIB Programmes

#### II M.Sc(IT) [2012-2014]

Semester III

Core: Data Warehousing and Mining - 363U1 Multiple Choice Questions.

<ol> <li> is a subject-oriented, integrated, time-variant, nonvolatile collection of data in support of management decisions.</li> <li>A. Data Mining.</li> <li>B. Data Warehousing.</li> <li>C. Web Mining.</li> </ol>
D. Text Mining. ANSWER: B
2. The data Warehouse is A. read only.
B. write only.
C. read write only.
D. none.
ANSWER: A
3. Expansion for DSS in DW is
A. Decision Support system.
B. Decision Single System.
C. Data Storable System.
D. Data Support System.
ANSWER: A
4. The important aspect of the data warehouse environment is that data found within the data
warehouse is
A. subject-oriented.
B. time-variant.
C. integrated.
D. All of the above. ANSWER: D
ANSWER: D
5. The time horizon in Data warehouse is usually
A. 1-2 years.
B. 3-4years.
C. 5-6 years.
D. 5-10 years.
ANSWER: D
6. The data is stored, retrieved & updated in
A. OLAP.
B. OLTP.
C. SMTP.

1 of 34 8/20/2013 2:47 PM

D. FTP. ANSWER: B
7describes the data contained in the data warehouse. A. Relational data. B. Operational data. C. Metadata. D. Informational data. ANSWER: C
<ul> <li>8predicts future trends &amp; behaviors, allowing business managers to make proactive knowledge-driven decisions.</li> <li>A. Data warehouse.</li> <li>B. Data mining.</li> <li>C. Datamarts.</li> <li>D. Metadata.</li> <li>ANSWER: B</li> </ul>
<ul> <li>9 is the heart of the warehouse.</li> <li>A. Data mining database servers.</li> <li>B. Data warehouse database servers.</li> <li>C. Data mart database servers.</li> <li>D. Relational data base servers.</li> <li>ANSWER: B</li> </ul>
10 is the specialized data warehouse database.  A. Oracle. B. DBZ. C. Informix. D. Redbrick. ANSWER: D
11defines the structure of the data held in operational databases and used by operational applications.  A. User-level metadata.  B. Data warehouse metadata.  C. Operational metadata.  D. Data mining metadata.  ANSWER: C
12 is held in the catalog of the warehouse database system.  A. Application level metadata.  B. Algorithmic level metadata.  C. Departmental level metadata.  D. Core warehouse metadata.  ANSWER: B
<ul> <li>13maps the core warehouse metadata to business concepts, familiar and useful to end users.</li> <li>A. Application level metadata.</li> <li>B. User level metadata.</li> <li>C. Enduser level metadata.</li> <li>D. Core level metadata.</li> <li>ANSWER: A</li> </ul>

2 of 34 8/20/2013 2:47 PM

<ul> <li>14consists of formal definitions, such as a COBOL layout or a database schema.</li> <li>A. Classical metadata.</li> <li>B. Transformation metadata.</li> <li>C. Historical metadata.</li> <li>D. Structural metadata.</li> <li>ANSWER: A</li> </ul>
<ul> <li>15consists of information in the enterprise that is not in classical form.</li> <li>A. Mushy metadata.</li> <li>B. Differential metadata.</li> <li>C. Data warehouse.</li> <li>D. Data mining.</li> <li>ANSWER: A</li> </ul>
<ul> <li>16databases are owned by particular departments or business groups.</li> <li>A. Informational.</li> <li>B. Operational.</li> <li>C. Both informational and operational.</li> <li>D. Flat.</li> <li>ANSWER: B</li> </ul>
17. The star schema is composed of fact table. A. one. B. two. C. three. D. four. ANSWER: A
18. The time horizon in operational environment is  A. 30-60 days.  B. 60-90 days.  C. 90-120 days.  D. 120-150 days.  ANSWER: B
<ul> <li>19. The key used in operational environment may not have an element of</li> <li>A. time.</li> <li>B. cost.</li> <li>C. frequency.</li> <li>D. quality.</li> <li>ANSWER: A</li> </ul>
20. Data can be updated inenvironment.  A. data warehouse.  B. data mining.  C. operational.  D. informational.  ANSWER: C
21. Record cannot be updated in  A. OLTP  B. files  C. RDBMS

D. data warehouse ANSWER: D
22. The source of all data warehouse data is the  A. operational environment.  B. informal environment.  C. formal environment.  D. technology environment.  ANSWER: A
23. Data warehouse containsdata that is never found in the operational environment.  A. normalized. B. informational. C. summary. D. denormalized. ANSWER: C
24. Data redundancy between the environments results in less thanpercent.  A. one.  B. two.  C. three.  D. four.  ANSWER: A
25. Bill Inmon has estimatedof the time required to build a data warehouse, is consumed in the conversion process.  A. 10 percent.  B. 20 percent.  C. 40 percent  D. 80 percent.  ANSWER: D
26. Detail data in single fact table is otherwise known as  A. monoatomic data.  B. diatomic data.  C. atomic data.  D. multiatomic data.  ANSWER: C
27test is used in an online transactional processing environment.  A. MEGA. B. MICRO. C. MACRO. D. ACID. ANSWER: D
28 is a good alternative to the star schema.  A. Star schema.  B. Snowflake schema.  C. Fact constellation.  D. Star-snowflake schema.  ANSWER: C
29. The biggest drawback of the level indicator in the classic star-schema is that it limits

A. quantify. B. qualify. C. flexibility. D. ability. ANSWER: C
30. A data warehouse is  A. updated by end users.  B. contains numerous naming conventions and formats  C. organized around important subject areas.  D. contains only current data.  ANSWER: C
31. An operational system is  A. used to run the business in real time and is based on historical data.  B. used to run the business in real time and is based on current data.  C. used to support decision making and is based on current data.  D. used to support decision making and is based on historical data.  ANSWER: B
32. The generic two-level data warehouse architecture includes  A. at least one data mart.  B. data that can extracted from numerous internal and external sources.  C. near real-time updates.  D. far real-time updates.  ANSWER: C
33. The active data warehouse architecture includes A. at least one data mart. B. data that can extracted from numerous internal and external sources. C. near real-time updates. D. all of the above. ANSWER: D
<ul> <li>34. Reconciled data is</li> <li>A. data stored in the various operational systems throughout the organization.</li> <li>B. current data intended to be the single source for all decision support systems.</li> <li>C. data stored in one operational system in the organization.</li> <li>D. data that has been selected and formatted for end-user support applications.</li> <li>ANSWER: B</li> </ul>
35. Transient data is  A. data in which changes to existing records cause the previous version of the records to be eliminated.  B. data in which changes to existing records do not cause the previous version of the records to be eliminated.  C. data that are never altered or deleted once they have been added.  D. data that are never deleted once they have been added.  ANSWER: A
<ul> <li>36. The extract process is</li> <li>A. capturing all of the data contained in various operational systems.</li> <li>B. capturing a subset of the data contained in various operational systems.</li> <li>C. capturing all of the data contained in various decision support systems.</li> </ul>

D. capturing a subset of the data contained in various decision support systems. ANSWER: B
37. Data scrubbing is  A. a process to reject data from the data warehouse and to create the necessary indexes.  B. a process to load the data in the data warehouse and to create the necessary indexes.  C. a process to upgrade the quality of data after it is moved into a data warehouse.  D. a process to upgrade the quality of data before it is moved into a data warehouse ANSWER: D
38. The load and index is  A. a process to reject data from the data warehouse and to create the necessary indexes.  B. a process to load the data in the data warehouse and to create the necessary indexes.  C. a process to upgrade the quality of data after it is moved into a data warehouse.  D. a process to upgrade the quality of data before it is moved into a data warehouse.  ANSWER: B
<ul> <li>39. Data transformation includes</li> <li>A. a process to change data from a detailed level to a summary level.</li> <li>B. a process to change data from a summary level to a detailed level.</li> <li>C. joining data from one source into various sources of data.</li> <li>D. separating data from one source into various sources of data.</li> <li>ANSWER: A</li> </ul>
<ul> <li>40 is called a multifield transformation.</li> <li>A. Converting data from one field into multiple fields.</li> <li>B. Converting data from fields into field.</li> <li>C. Converting data from double fields into multiple fields.</li> <li>D. Converting data from one field to one field.</li> <li>ANSWER: A</li> </ul>
41. The type of relationship in star schema is  A. many-to-many.  B. one-to-one.  C. one-to-many.  D. many-to-one.  ANSWER: C
42. Fact tables are A. completely demoralized. B. partially demoralized. C. completely normalized. D. partially normalized. ANSWER: C
43 is the goal of data mining.  A. To explain some observed event or condition.  B. To confirm that data exists.  C. To analyze data for expected relationships.  D. To create a new data warehouse.  ANSWER: A
44. Business Intelligence and data warehousing is used for  A. Forecasting.

<ul><li>B. Data Mining.</li><li>C. Analysis of large volumes of product sales data.</li><li>D. All of the above.</li><li>ANSWER: D</li></ul>
<ul> <li>45. The data administration subsystem helps you perform all of the following, except</li> <li>A. backups and recovery.</li> <li>B. query optimization.</li> <li>C. security management.</li> <li>D. create, change, and delete information.</li> <li>ANSWER: D</li> </ul>
<ul> <li>46. The most common source of change data in refreshing a data warehouse is</li> <li>A. queryable change data.</li> <li>B. cooperative change data.</li> <li>C. logged change data.</li> <li>D. snapshot change data.</li> <li>ANSWER: A</li> </ul>
<ul> <li>47 are responsible for running queries and reports against data warehouse tables.</li> <li>A. Hardware.</li> <li>B. Software.</li> <li>C. End users.</li> <li>D. Middle ware.</li> <li>ANSWER: C</li> </ul>
48. Query tool is meant for  A. data acquisition.  B. information delivery.  C. information exchange.  D. communication.  ANSWER: A
<ul> <li>49. Classification rules are extracted from</li> <li>A. root node.</li> <li>B. decision tree.</li> <li>C. siblings.</li> <li>D. branches.</li> <li>ANSWER: B</li> </ul>
50. Dimensionality reduction reduces the data set size by removing  A. relevant attributes.  B. irrelevant attributes.  C. derived attributes.  D. composite attributes.  ANSWER: B
51 is a method of incremental conceptual clustering.  A. CORBA.  B. OLAP. C. COBWEB. D. STING. ANSWER: C

52. Effect of one attribute value on a given class is independent of values of other attribute	is called
A. value independence.	
B. class conditional independence.	
C. conditional independence.	
D. unconditional independence.	
ANSWER: A	
53. The main organizational justification for implementing a data warehouse is to provide _	•
A. cheaper ways of handling transportation.	
B. decision support.	
C. storing large volume of data.	
D. access to data.	
ANSWER: C	
54. Maintenance of cache consistency is the limitation of	
A. NUMA.	
B. UNAM.	
C. MPP.	
D. PMP.	
ANSWER: C	
55. Data warehouse architecture is based on	
A. DBMS.	
B. RDBMS.	
C. Sybase.	
D. SQL Server.	
ANSWER: B	
56. Source data from the warehouse comes from	
A. ODS.	
B. TDS.	
C. MDDB.	
D. ORDBMS.	
ANSWER: A	
57 is a data transformation process.	
A. Comparison.	
B. Projection.	
C. Selection.	
D. Filtering.	
ANSWER: D	
58. The technology area associated with CRM is	
A. specialization.	
B. generalization.	
C. personalization.	
D. summarization.	
ANSWER: C	
59. SMP stands for	
A. Symmetric Multiprocessor.	
B. Symmetric Multiprogramming.	
C. Symmetric Metaprogramming.	

D. Symmetric Microprogramming. ANSWER: A
60 are designed to overcome any limitations placed on the warehouse by the nature of the relational data model.  A. Operational database.  B. Relational database.  C. Multidimensional database.  D. Data repository.  ANSWER: C
61 are designed to overcome any limitations placed on the warehouse by the nature of the relational data model.  A. Operational database.  B. Relational database.  C. Multidimensional database.  D. Data repository.  ANSWER: C
62. MDDB stands for  A. multiple data doubling.  B. multidimensional databases.  C. multiple double dimension.  D. multi-dimension doubling.  ANSWER: B
63 is data about data. A. Metadata. B. Microdata. C. Minidata. D. Multidata. ANSWER: A
<ul> <li>64 is an important functional component of the metadata.</li> <li>A. Digital directory.</li> <li>B. Repository.</li> <li>C. Information directory.</li> <li>D. Data dictionary.</li> <li>ANSWER: C</li> </ul>
65. EIS stands for  A. Extended interface system.  B. Executive interface system.  C. Executive information system.  D. Extendable information system.  ANSWER: C
66 is data collected from natural systems.  A. MRI scan.  B. ODS data.  C. Statistical data.  D. Historical data.  ANSWER: A

67	_ is an example of application development environments.
A. Visual Basic.	
B. Oracle.	
C. Sybase.	
D. SQL Server. ANSWER: A	
ANOWER. A	
68. The term that is r A. domain consiste B. deduplication. C. disambiguation. D. segmentation. ANSWER: D	
69 aı	re some popular OLAP tools.
A. Metacube, Info	
B. Oracle Express	, Essbase.
C. HOLAP. D. MOLAP.	
ANSWER: A	
70. Capability of data	a mining is to build models.
A. retrospective.	
<ul><li>B. interrogative.</li><li>C. predictive.</li></ul>	
D. imperative.	
ANSWER: C	
A. Association. B. Preferencing. C. Segmentation. D. Classification. ANSWER: B	is a process of determining the preference of customer's majority.
72. Strategic value of	f data mining is
A. cost-sensitive.	
B. work-sensitive.	
C. time-sensitive. D. technical-sensit	3
ANSWER: C	ive.
111,5 11 211. 6	
	roposed the approach for data integration issues.
A. Ralph Campbel B. Ralph Kimball.	и.
C. John Raphlin.	
D. James Gosling.	
ANSWER: B	
-	ty and roll up are associated with
A. OLAP. B. visualization.	
C. data mart.	
D. decision tree.	

ANSWER: C
75. Exceptional reporting in data warehousing is otherwise called as
A. exception.
B. alerts.
C. errors.
D. bugs.
ANSWER: B
76 is a metadata repository.
A. Prism solution directory manager.
B. CORBA.
C. STUNT.
D. COBWEB.
ANSWER: A
77 is an expensive process in building an expert system.
A. Analysis.
B. Study.
C. Design.
D. Information collection.
ANSWER: D
ANSWER. D
78. The full form of KDD is
A. Knowledge database.
B. Knowledge discovery in database.
C. Knowledge data house.
D. Knowledge data definition.
ANSWER: B
79. The first International conference on KDD was held in the year
A. 1996.
B. 1997.
C. 1995.
D. 1994.
ANSWER: C
ANSWER. C
80. Removing duplicate records is a process called
A. recovery.
B. data cleaning.
C. data cleansing.
D. data pruning.
ANSWER: B
81 contains information that gives users an easy-to-understand perspective of the
information stored in the data warehouse.
A. Business metadata.
B. Technical metadata.
C. Operational metadata.
D. Financial metadata.
ANSWER: A
82 helps to integrate, maintain and view the contents of the data warehousing
system.

A. Business directory. B. Information directory. C. Data dictionary. D. Database. ANSWER: B
83. Discovery of cross-sales opportunities is called  A. segmentation.  B. visualization.  C. correction.  D. association.  ANSWER: D
84. Data marts that incorporate data mining tools to extract sets of data are called  A. independent data mart.  B. dependent data marts.  C. intra-entry data mart.  D. inter-entry data mart.  ANSWER: B
<ul> <li>85 can generate programs itself, enabling it to carry out new tasks.</li> <li>A. Automated system.</li> <li>B. Decision making system.</li> <li>C. Self-learning system.</li> <li>D. Productivity system.</li> <li>ANSWER: D</li> </ul>
86. The power of self-learning system lies in A. cost. B. speed. C. accuracy. D. simplicity. ANSWER: C
87. Building the informational database is done with the help of  A. transformation or propagation tools.  B. transformation tools only.  C. propagation tools only.  D. extraction tools.  ANSWER: A
88. How many components are there in a data warehouse?  A. two.  B. three.  C. four.  D. five.  ANSWER: D
<ul> <li>89. Which of the following is not a component of a data warehouse?</li> <li>A. Metadata.</li> <li>B. Current detail data.</li> <li>C. Lightly summarized data.</li> <li>D. Component Key.</li> <li>ANSWER: D</li> </ul>

90 is data that is distilled from the low level of detail found at the current detailed leve.  A. Highly summarized data.  B. Lightly summarized data.  C. Metadata.  D. Older detail data.  ANSWER: B
91. Highly summarized data is  A. compact and easily accessible.  B. compact and expensive.  C. compact and hardly accessible.  D. compact.  ANSWER: A
92. A directory to help the DSS analyst locate the contents of the data warehouse is seen in  A. Current detail data.  B. Lightly summarized data.  C. Metadata.  D. Older detail data.  ANSWER: C
<ul> <li>93. Metadata contains atleast</li> <li>A. the structure of the data.</li> <li>B. the algorithms used for summarization.</li> <li>C. the mapping from the operational environment to the data warehouse.</li> <li>D. all of the above.</li> <li>ANSWER: D</li> </ul>
<ul> <li>94. Which of the following is not a old detail storage medium?</li> <li>A. Phot Optical Storage.</li> <li>B. RAID.</li> <li>C. Microfinche.</li> <li>D. Pen drive.</li> <li>ANSWER: D</li> </ul>
95. The data from the operational environment enter of data warehouse.  A. Current detail data.  B. Older detail data.  C. Lightly summarized data.  D. Highly summarized data.  ANSWER: A
96. The data in current detail level resides till event occurs.  A. purge. B. summarization. C. archieved. D. all of the above. ANSWER: D
97. The dimension tables describe the A. entities. B. facts. C. keys.

D. units of measures. ANSWER: B
<ul> <li>98. The granularity of the fact is the of detail at which it is recorded.</li> <li>A. transformation.</li> <li>B. summarization.</li> <li>C. level.</li> <li>D. transformation and summarization.</li> <li>ANSWER: C</li> </ul>
<ul> <li>99. Which of the following is not a primary grain in analytical modeling?</li> <li>A. Transaction.</li> <li>B. Periodic snapshot.</li> <li>C. Accumulating snapshot.</li> <li>D. All of the above.</li> <li>ANSWER: B</li> </ul>
100. Granularity is determined by  A. number of parts to a key.  B. granularity of those parts.  C. both A and B.  D. none of the above.  ANSWER: C
<ul> <li>101 of data means that the attributes within a given entity are fully dependent on the entire primary key of the entity.</li> <li>A. Additivity.</li> <li>B. Granularity.</li> <li>C. Functional dependency.</li> <li>D. Dimensionality.</li> <li>ANSWER: C</li> </ul>
<ul> <li>102. A fact is said to be fully additive if</li> <li>A. it is additive over every dimension of its dimensionality.</li> <li>B. additive over atleast one but not all of the dimensions.</li> <li>C. not additive over any dimension.</li> <li>D. None of the above.</li> <li>ANSWER: A</li> </ul>
<ul> <li>103. A fact is said to be partially additive if</li> <li>A. it is additive over every dimension of its dimensionality.</li> <li>B. additive over atleast one but not all of the dimensions.</li> <li>C. not additive over any dimension.</li> <li>D. None of the above.</li> <li>ANSWER: B</li> </ul>
104. A fact is said to be non-additive if  A. it is additive over every dimension of its dimensionality.  B. additive over atleast one but not all of the dimensions.  C. not additive over any dimension.  D. None of the above.  ANSWER: C
105. Non-additive measures can often combined with additive measures to create new

A. additive measures. B. non-additive measures. C. partially additive. D. All of the above. ANSWER: A	
<ul> <li>106. A fact representing cumulative sales units over a day at a store for a product is a</li> <li>A. additive fact.</li> <li>B. fully additive fact.</li> <li>C. partially additive fact.</li> <li>D. non-additive fact.</li> <li>ANSWER: B</li> </ul>	
<ul> <li>107 of data means that the attributes within a given entity are fully dependent on the entire primary key of the entity.</li> <li>A. Additivity.</li> <li>B. Granularity.</li> <li>C. Functional Dependency.</li> <li>D. Dependency.</li> <li>ANSWER: C</li> </ul>	ne
<ul><li>108. Which of the following is the other name of Data mining?</li><li>A. Exploratory data analysis.</li><li>B. Data driven discovery.</li><li>C. Deductive learning.</li><li>D. All of the above.</li><li>ANSWER: D</li></ul>	
<ul><li>109. Which of the following is a predictive model?</li><li>A. Clustering.</li><li>B. Regression.</li><li>C. Summarization.</li><li>D. Association rules.</li><li>ANSWER: B</li></ul>	
<ul><li>110. Which of the following is a descriptive model?</li><li>A. Classification.</li><li>B. Regression.</li><li>C. Sequence discovery.</li><li>D. Association rules.</li><li>ANSWER: C</li></ul>	
<ul> <li>111. A model identifies patterns or relationships.</li> <li>A. Descriptive.</li> <li>B. Predictive.</li> <li>C. Regression.</li> <li>D. Time series analysis.</li> <li>ANSWER: A</li> </ul>	
112. A predictive model makes use of A. current data. B. historical data. C. both current and historical data. D. assumptions.	

ANSWER: B
<ul> <li>113 maps data into predefined groups.</li> <li>A. Regression.</li> <li>B. Time series analysis</li> <li>C. Prediction.</li> <li>D. Classification.</li> <li>ANSWER: D</li> </ul>
<ul> <li>114 is used to map a data item to a real valued prediction variable.</li> <li>A. Regression.</li> <li>B. Time series analysis.</li> <li>C. Prediction.</li> <li>D. Classification.</li> <li>ANSWER: B</li> </ul>
<ul> <li>115. In, the value of an attribute is examined as it varies over time.</li> <li>A. Regression.</li> <li>B. Time series analysis.</li> <li>C. Sequence discovery.</li> <li>D. Prediction.</li> <li>ANSWER: B</li> </ul>
<ul><li>116. In the groups are not predefined.</li><li>A. Association rules.</li><li>B. Summarization.</li><li>C. Clustering.</li><li>D. Prediction.</li><li>ANSWER: C</li></ul>
117. Link Analysis is otherwise called as  A. affinity analysis.  B. association rules.  C. both A & B.  D. Prediction.  ANSWER: C
118 is a the input to KDD.  A. Data. B. Information. C. Query. D. Process. ANSWER: A
119. The output of KDD is A. Data. B. Information. C. Query. D. Useful information. ANSWER: D
120. The KDD process consists of steps. A. three. B. four

C. five. D. six. ANSWER: C
121. Treating incorrect or missing data is called as  A. selection.  B. preprocessing.  C. transformation.  D. interpretation.  ANSWER: B
<ul> <li>122. Converting data from different sources into a common format for processing is called as</li></ul>
<ul> <li>123. Various visualization techniques are used in step of KDD.</li> <li>A. selection.</li> <li>B. transformaion.</li> <li>C. data mining.</li> <li>D. interpretation.</li> <li>ANSWER: D</li> </ul>
124. Extreme values that occur infrequently are called as  A. outliers.  B. rare values.  C. dimensionality reduction.  D. All of the above.  ANSWER: A
<ul> <li>125. Box plot and scatter diagram techniques are</li> <li>A. Graphical.</li> <li>B. Geometric.</li> <li>C. Icon-based.</li> <li>D. Pixel-based.</li> <li>ANSWER: B</li> </ul>
<ul> <li>126 is used to proceed from very specific knowledge to more general information.</li> <li>A. Induction.</li> <li>B. Compression.</li> <li>C. Approximation.</li> <li>D. Substitution.</li> <li>ANSWER: A</li> </ul>
<ul> <li>127. Describing some characteristics of a set of data by a general model is viewed as</li> <li>A. Induction.</li> <li>B. Compression.</li> <li>C. Approximation.</li> <li>D. Summarization.</li> <li>ANSWER: B</li> </ul>
128 helps to uncover hidden information about the data.

<ul><li>A. Induction.</li><li>B. Compression.</li><li>C. Approximation.</li><li>D. Summarization.</li><li>ANSWER: C</li></ul>
<ul> <li>129 are needed to identify training data and desired results.</li> <li>A. Programmers.</li> <li>B. Designers.</li> <li>C. Users.</li> <li>D. Administrators.</li> <li>ANSWER: C</li> </ul>
130. Overfitting occurs when a model  A. does fit in future states.  B. does not fit in future states.  C. does fit in current state.  D. does not fit in current state.  ANSWER: B
<ul> <li>131. The problem of dimensionality curse involves</li> <li>A. the use of some attributes may interfere with the correct completion of a data mining task.</li> <li>B. the use of some attributes may simply increase the overall complexity.</li> <li>C. some may decrease the efficiency of the algorithm.</li> <li>D. All of the above.</li> <li>ANSWER: D</li> </ul>
132. Incorrect or invalid data is known as  A. changing data.  B. noisy data.  C. outliers.  D. missing data.  ANSWER: B
133. ROI is an acronym of  A. Return on Investment.  B. Return on Information.  C. Repetition of Information.  D. Runtime of Instruction  ANSWER: A
134. The of data could result in the disclosure of information that is deemed to be confidential.  A. authorized use. B. unauthorized use. C. authenticated use. D. unauthenticated use. ANSWER: B
<ul> <li>135 data are noisy and have many missing attribute values.</li> <li>A. Preprocessed.</li> <li>B. Cleaned.</li> <li>C. Real-world.</li> <li>D. Transformed.</li> </ul>

ANSWER: C
136. The rise of DBMS occurred in early  A. 1950's. B. 1960's C. 1970's D. 1980's. ANSWER: C
137. SQL stand for  A. Standard Query Language.  B. Structured Query Language.  C. Standard Quick List.  D. Structured Query list.  ANSWER: B
<ul><li>138. Which of the following is not a data mining metric?</li><li>A. Space complexity.</li><li>B. Time complexity.</li><li>C. ROI.</li><li>D. All of the above.</li><li>ANSWER: D</li></ul>
<ul> <li>139. Reducing the number of attributes to solve the high dimensionality problem is called as</li> <li>A. dimensionality curse.</li> <li>B. dimensionality reduction.</li> <li>C. cleaning.</li> <li>D. Overfitting.</li> <li>ANSWER: B</li> </ul>
<ul> <li>140. Data that are not of interest to the data mining task is called as</li> <li>A. missing data.</li> <li>B. changing data.</li> <li>C. irrelevant data.</li> <li>D. noisy data.</li> <li>ANSWER: C</li> </ul>
<ul> <li>141 are effective tools to attack the scalability problem.</li> <li>A. Sampling.</li> <li>B. Parallelization</li> <li>C. Both A &amp; B.</li> <li>D. None of the above.</li> <li>ANSWER: C</li> </ul>
142. Market-basket problem was formulated by  A. Agrawal et al.  B. Steve et al.  C. Toda et al.  D. Simon et al.  ANSWER: A
143. Data mining helps in A. inventory management. B. sales promotion strategies.

C. marketing strategies. D. All of the above. ANSWER: D
<ul> <li>144. The proportion of transaction supporting X in T is called</li> <li>A. confidence.</li> <li>B. support.</li> <li>C. support count.</li> <li>D. All of the above.</li> <li>ANSWER: B</li> </ul>
<ul> <li>145. The absolute number of transactions supporting X in T is called</li> <li>A. confidence.</li> <li>B. support.</li> <li>C. support count.</li> <li>D. None of the above.</li> <li>ANSWER: C</li> </ul>
<ul> <li>146. The value that says that transactions in D that support X also support Y is called</li></ul>
147. If T consist of 500000 transactions, 20000 transaction contain bread, 30000 transaction contain jam, 10000 transaction contain both bread and jam. Then the support of bread and jam is  A. 2% B. 20% C. 3% D. 30% ANSWER: A
148. 7 If T consist of 500000 transactions, 20000 transaction contain bread, 30000 transaction contain jam, 10000 transaction contain both bread and jam. Then the confidence of buying bread with jam is
A. 33.33% B. 66.66% C. 45% D. 50% ANSWER: D
149. The left hand side of an association rule is called  A. consequent.  B. onset.  C. antecedent.  D. precedent.  ANSWER: C
<ul><li>150. The right hand side of an association rule is called</li><li>A. consequent.</li><li>B. onset.</li><li>C. antecedent.</li><li>D. precedent.</li></ul>

ANSWER: A
<ul><li>151. Which of the following is not a desirable feature of any efficient algorithm?</li><li>A. to reduce number of input operations.</li><li>B. to reduce number of output operations.</li></ul>
C. to be efficient in computing.
D. to have maximal code length.
ANSWER: D
152. All set of items whose support is greater than the user-specified minimum support are called as
A. border set.
B. frequent set.
C. maximal frequent set.
D. lattice.
ANSWER: B
153. If a set is a frequent set and no superset of this set is a frequent set, then it is called  A. maximal frequent set.  B. border set.  C. lattice.  D. infrequent sets.  ANSWER: A
<ul> <li>154. Any subset of a frequent set is a frequent set. This is</li> <li>A. Upward closure property.</li> <li>B. Downward closure property.</li> <li>C. Maximal frequent set.</li> <li>D. Border set.</li> <li>ANSWER: B</li> </ul>
<ul> <li>155. Any superset of an infrequent set is an infrequent set. This is</li> <li>A. Maximal frequent set.</li> <li>B. Border set.</li> <li>C. Upward closure property.</li> <li>D. Downward closure property.</li> <li>ANSWER: C</li> </ul>
<ul> <li>156. If an itemset is not a frequent set and no superset of this is a frequent set, then it is</li> <li>A. Maximal frequent set</li> <li>B. Border set.</li> <li>C. Upward closure property.</li> <li>D. Downward closure property.</li> <li>ANSWER: B</li> </ul>
<ul> <li>157. A priori algorithm is otherwise called as</li> <li>A. width-wise algorithm.</li> <li>B. level-wise algorithm.</li> <li>C. pincer-search algorithm.</li> <li>D. FP growth algorithm.</li> <li>ANSWER: B</li> </ul>
158. The A Priori algorithm is a  A. top-down search.

B. breadth first search. C. depth first search. D. bottom-up search. ANSWER: D
159. The first phase of A Priori algorithm is  A. Candidate generation.  B. Itemset generation.  C. Pruning.  D. Partitioning.  ANSWER: A
160. The second phaase of A Priori algorithm is  A. Candidate generation.  B. Itemset generation.  C. Pruning.  D. Partitioning.  ANSWER: C
<ul> <li>161. The step eliminates the extensions of (k-1)-itemsets which are not found to be frequent, from being considered for counting support.</li> <li>A. Candidate generation.</li> <li>B. Pruning.</li> <li>C. Partitioning.</li> <li>D. Itemset eliminations.</li> <li>ANSWER: B</li> </ul>
<ul> <li>162. The a priori frequent itemset discovery algorithm moves in the lattice.</li> <li>A. upward.</li> <li>B. downward.</li> <li>C. breadthwise.</li> <li>D. both upward and downward.</li> <li>ANSWER: A</li> </ul>
<ul> <li>163. After the pruning of a priori algorithm, will remain.</li> <li>A. Only candidate set.</li> <li>B. No candidate set.</li> <li>C. Only border set.</li> <li>D. No border set.</li> <li>ANSWER: B</li> </ul>
164. The number of iterations in a priori  A. increases with the size of the maximum frequent set.  B. decreases with increase in size of the maximum frequent set.  C. increases with the size of the data.  D. decreases with the increase in size of the data.  ANSWER: A
165. MFCS is the acronym of  A. Maximum Frequency Control Set.  B. Minimal Frequency Control Set.  C. Maximal Frequent Candidate Set.  D. Minimal Frequent Candidate Set.  ANSWER: C

166. Dynamuc Itemset Counting Algorithm was proposed by  A. Bin et al.  B. Argawal et at.  C. Toda et al.  D. Simon et at.  ANSWER: A
167. Itemsets in the category of structures have a counter and the stop number with them.  A. Dashed. B. Circle. C. Box. D. Solid. ANSWER: A
168. The itemsets in thecategory structures are not subjected to any counting.  A. Dashes. B. Box. C. Solid. D. Circle. ANSWER: C
<ul> <li>169. Certain itemsets in the dashed circle whose support count reach support value during an iteration move into the</li> <li>A. Dashed box.</li> <li>B. Solid circle.</li> <li>C. Solid box.</li> <li>D. None of the above.</li> <li>ANSWER: A</li> </ul>
<ul> <li>170. Certain itemsets enter afresh into the system and get into the, which are essentially the supersets of the itemsets that move from the dashed circle to the dashed box.</li> <li>A. Dashed box.</li> <li>B. Solid circle.</li> <li>C. Solid box.</li> <li>D. Dashed circle.</li> <li>ANSWER: D</li> </ul>
<ul> <li>171. The itemsets that have completed on full pass move from dashed circle to</li> <li>A. Dashed box.</li> <li>B. Solid circle.</li> <li>C. Solid box.</li> <li>D. None of the above.</li> <li>ANSWER: B</li> </ul>
172. The FP-growth algorithm has phases. A. one. B. two. C. three. D. four. ANSWER: B
173. A frequent pattern tree is a tree structure consisting of  A. an item-prefix-tree.

B. a frequent-item-header table. C. a frequent-item-node. D. both A & B. ANSWER: D
174. The non-root node of item-prefix-tree consists of fields.  A. two.  B. three.  C. four.  D. five.  ANSWER: B
175. The frequent-item-header-table consists of fields.  A. only one.  B. two.  C. three.  D. four.  ANSWER: B
176. The paths from root node to the nodes labelled 'a' are called  A. transformed prefix path.  B. suffix subpath.  C. transformed suffix path.  D. prefix subpath.  ANSWER: D
177. The transformed prefix paths of a node 'a' form a truncated database of pattern which co-occur with a is called  A. suffix path.  B. FP-tree.  C. conditional pattern base.  D. prefix path.  ANSWER: C
<ul> <li>178. The goal of is to discover both the dense and sparse regions of a data set.</li> <li>A. Association rule.</li> <li>B. Classification.</li> <li>C. Clustering.</li> <li>D. Genetic Algorithm.</li> <li>ANSWER: C</li> </ul>
<ul><li>179. Which of the following is a clustering algorithm?</li><li>A. A priori.</li><li>B. CLARA.</li><li>C. Pincer-Search.</li><li>D. FP-growth.</li><li>ANSWER: B</li></ul>
<ul> <li>180 clustering technique start with as many clusters as there are records, with each cluster having only one record.</li> <li>A. Agglomerative.</li> <li>B. divisive.</li> <li>C. Partition.</li> <li>D. Numeric.</li> </ul>

ANSWER: A	
181	_ clustering techniques starts with all records in one cluster and then try to split that
cluster into smal	l pieces.
A. Agglomera	•
B. Divisive.	
C. Partition.	
D. Numeric.	
ANSWER: B	
THISWER. B	
182. Which of the	ne following is a data set in the popular UCI machine-learning repository?
A. CLARA.	
B. CACTUS.	
C. STIRR.	
D. MUSHRO	OM.
ANSWER: D	
183. In	_ algorithm each cluster is represented by the center of gravity of the cluster.
A. k-medoid.	
B. k-means.	
C. STIRR.	
D. ROCK.	
ANSWER: B	
184. In	each cluster is represented by one of the objects of the cluster located near the
center.	
A. k-medoid.	
B. k-means.	
C. STIRR.	
D. ROCK.	
ANSWER: A	
111 (8 () 210 11	
	x-medoid algoithm.
A. DBSCAN.	
B. BIRCH.	
C. PAM.	
D. CURE.	
ANSWER: C	
186. Pick out a h	nierarchical clustering algorithm.
A. DBSCAN	
B. BIRCH.	
C. PAM.	
D. CURE.	
ANSWER: A	
187 CLADANS	stands for
A. CLARA N	
	Large Application RAnge Network Search.
_	Large Applications based on RANdomized Search.
D. CLustering ANSWER: C	Application Randomized Search.
188. BIRCH is a	·

	A. agglomerative clustering algorithm. B. hierarchical algorithm. C. hierarchical-agglomerative algorithm. D. divisive. ANSWER: C
	89. The cluster features of different subclusters are maintained in a tree called  A. CF tree.  B. FP tree.  C. FP growth tree.  D. B tree.  ANSWER: A
ir	90. The algorithm is based on the observation that the frequent sets are normally very few number compared to the set of all itemsets.  A. A priori. B. Clustering. C. Association rule. D. Partition. ANSWER: D
	91. The partition algorithm uses scans of the databases to discover all frequent sets.  A. two.  B. four.  C. six.  D. eight.  ANSWER: A
S	92. The basic idea of the apriori algorithm is to generate item sets of a particular size & cans the database.  A. candidate.  B. primary.  C. secondary.  D. superkey.  ANSWER: A
p	93is the most well known association rule algorithm and is used in most commercial roducts.  A. Apriori algorithm.  B. Partition algorithm.  C. Distributed algorithm.  D. Pincer-search algorithm.  ANSWER: A
fi	94. An algorithm calledis used to generate the candidate item sets for each pass after the rst.  A. apriori. B. apriori-gen. C. sampling. D. partition.  ANSWER: B
	95. The basic partition algorithm reduces the number of database scans to & divides it into artitions.

A. one. B. two. C. three. D. four. ANSWER: B
196and prediction may be viewed as types of classification.  A. Decision. B. Verification. C. Estimation. D. Illustration. ANSWER: C
197can be thought of as classifying an attribute value into one of a set of possible classes.  A. Estimation. B. Prediction. C. Identification. D. Clarification. ANSWER: B
198. Prediction can be viewed as forecasting avalue. A. non-continuous. B. constant. C. continuous. D. variable. ANSWER: C
<ul> <li>199data consists of sample input data as well as the classification assignment for the data.</li> <li>A. Missing.</li> <li>B. Measuring.</li> <li>C. Non-training.</li> <li>D. Training.</li> <li>ANSWER: D</li> </ul>
200. Rule based classification algorithms generate rule to perform the classification.  A. if-then. B. while. C. do while. D. switch. ANSWER: A
201 are a different paradigm for computing which draws its inspiration from neuroscience.  A. Computer networks.  B. Neural networks.  C. Mobile networks.  D. Artificial networks.  ANSWER: B
202. The human brain consists of a network of A. neurons. B. cells. C. Tissue.

D. muscles. ANSWER: A
203. Each neuron is made up of a number of nerve fibres called  A. electrons. B. molecules. C. atoms. D. dendrites. ANSWER: D
204. Theis a long, single fibre that originates from the cell body.  A. axon. B. neuron. C. dendrites. D. strands. ANSWER: A
205. A single axon makes of synapses with other neurons.  A. ones. B. hundreds. C. thousands. D. millions. ANSWER: C
206 is a complex chemical process in neural networks.  A. Receiving process.  B. Sending process.  C. Transmission process.  D. Switching process.  ANSWER: C
207 is the connectivity of the neuron that give simple devices their real power. a. b. c. d. A. Water. B. Air. C. Power. D. Fire. ANSWER: D
<ul> <li>208 are highly simplified models of biological neurons.</li> <li>A. Artificial neurons.</li> <li>B. Computational neurons.</li> <li>C. Biological neurons.</li> <li>D. Technological neurons.</li> <li>ANSWER: A</li> </ul>
209. The biological neuron's is a continuous function rather than a step function.  A. read.  B. write.  C. output.  D. input.  ANSWER: C
210. The threshold function is replaced by continuous functions called functions.  A. activation.

B. deactivation. C. dynamic. D. standard. ANSWER: A
211. The sigmoid function also knows asfunctions.  A. regression.  B. logistic.  C. probability.  D. neural.  ANSWER: B
212. MLP stands for  A. mono layer perception.  B. many layer perception.  C. more layer perception.  D. multi layer perception.  ANSWER: D
213. In a feed- forward networks, the conncetions between layers are from input to output.  A. bidirectional.  B. unidirectional.  C. multidirectional.  D. directional.  ANSWER: B
214. The network topology is constrained to be  A. feedforward.  B. feedbackward.  C. feed free.  D. feed busy.  ANSWER: A
215. RBF stands for  A. Radial basis function.  B. Radial bio function.  C. Radial big function.  D. Radial bi function.  ANSWER: A
216. RBF have only hidden layer.  A. four. B. three. C. two. D. one. ANSWER: D
217. RBF hidden layer units have a receptive field which has a; that is, a particular input value at which they have a maximal output.  A. top. B. bottom. C. centre. D. border.

ANSWER: C			
218 training may be used when a clear link between input data sets and target ou values does not exist.  A. Competitive.			
B. Perception.			
C. Supervised.			
D. Unsupervised.			
ANSWER: D			
219 employs the supervised mode of learning.			
A. RBF.			
B. MLP.			
C. MLP & RBF.			
D. ANN.			
ANSWER: C			
220 design involves deciding on their centres and the sharpness of their Gaussians.			
A. DR.			
B. AND. C. XOR.			
D. RBF.			
ANSWER: D			
221 is the most widely applied neural network technique.			
A. ABC.			
B. PLM.			
C. LMP.			
D. MLP.			
ANSWER: D			
222. SOM is an acronym of			
A. self-organizing map.			
B. self origin map.			
C. single organizing map.			
D. simple origin map.			
ANSWER: A			
223 is one of the most popular models in the unsupervised framework.			
A. SOM.			
B. SAM.			
C. OSM. D. MSO.			
ANSWER: A			
THOWER. IX			
224. The actual amount of reduction at each learning step may be guided by			
A. learning cost.			
B. learning level.			
C. learning rate.			
D. learning time. ANSWER: C			
ANSW ER. C			
225. The SOM was a neural network model developed by  A. Simon King.			
in omon imig.			

B. Teuvokohonen. C. Tomoki Toda. D. Julia. ANSWER: B
226. SOM was developed during  A. 1970-80. B. 1980-90. C. 1990 -60. D. 1979 -82. ANSWER: D
227. Investment analysis used in neural networks is to predict the movement of from previous data.  A. engines. B. stock. C. patterns. D. models. ANSWER: B
228. SOMs are used to cluster a specific dataset containing information about the patient's drugs etc.  A. physical. B. logical. C. medical. D. technical. ANSWER: C
229. GA stands for  A. Genetic algorithm  B. Gene algorithm.  C. General algorithm.  D. Geo algorithm.  ANSWER: A
230. GA was introduced in the year  A. 1955. B. 1965. C. 1975. D. 1985. ANSWER: C
231. Genetic algorithms are search algorithms based on the mechanics of natural  A. systems. B. genetics. C. logistics. D. statistics. ANSWER: B
232. GAs were developed in the early  A. 1970. B. 1960. C. 1950. D. 1940.

ANSWER: A
233. The RSES system was developed in  A. Poland. B. Italy. C. England. D. America. ANSWER: A
234. Crossover is used to  A. recombine the population's genetic material.  B. introduce new genetic structures in the population.  C. to modify the population's genetic material.  D. All of the above.  ANSWER: A
<ul> <li>235. The mutation operator</li> <li>A. recombine the population's genetic material.</li> <li>B. introduce new genetic structures in the population.</li> <li>C. to modify the population's genetic material.</li> <li>D. All of the above.</li> <li>ANSWER: B</li> </ul>
<ul> <li>236. Which of the following is an operation in genetic algorithm?</li> <li>A. Inversion.</li> <li>B. Dominance.</li> <li>C. Genetic edge recombination.</li> <li>D. All of the above.</li> <li>ANSWER: D</li> </ul>
237 is a system created for rule induction.  A. RBS. B. CBS. C. DBS. D. LERS. ANSWER: D
238. NLP stands for  A. Non Language Process.  B. Nature Level Program.  C. Natural Language Page.  D. Natural Language Processing.  ANSWER: D
239. Web content mining describes the discovery of useful information from thecontents.  A. text. B. web. C. page. D. level. ANSWER: B
<ul><li>240. Research on mining multi-types of data is termed as data.</li><li>A. graphics.</li><li>B. multimedia.</li></ul>

C. meta. D. digital. ANSWER: B
<ul> <li>241 mining is concerned with discovering the model underlying the link structures of the web.</li> <li>A. Data structure.</li> <li>B. Web structure.</li> <li>C. Text structure.</li> <li>D. Image structure.</li> <li>ANSWER: B</li> </ul>
<ul> <li>242 is the way of studying the web link structure.</li> <li>A. Computer network.</li> <li>B. Physical network.</li> <li>C. Social network.</li> <li>D. Logical network.</li> <li>ANSWER: C</li> </ul>
243. The propose a measure of standing a node based on path counting.  A. open web.  B. close web.  C. link web.  D. hidden web.  ANSWER: B
<ul> <li>244. In web mining, is used to find natural groupings of users, pages, etc.</li> <li>A. clustering.</li> <li>B. associations.</li> <li>C. sequential analysis.</li> <li>D. classification.</li> <li>ANSWER: A</li> </ul>
245. In web mining, is used to know the order in which URLs tend to be accessed.  A. clustering.  B. associations.  C. sequential analysis.  D. classification.  ANSWER: C
246. In web mining, is used to know which URLs tend to be requested together.  A. clustering.  B. associations.  C. sequential analysis.  D. classification.  ANSWER: B
<ul> <li>247 describes the discovery of useful information from the web contents.</li> <li>A. Web content mining.</li> <li>B. Web structure mining.</li> <li>C. Web usage mining.</li> <li>D. All of the above.</li> <li>ANSWER: A</li> </ul>
248 is concerned with discovering the model underlying the link structures of the web.

A. Web content mining.	
B. Web structure mining.	
C. Web usage mining.	
D. All of the above.	
ANSWER: B	
249. A link is said to be	link if it is between pages with different domain names.
A. intrinsic.	
B. transverse.	
C. direct.	
D. contrast.	
ANSWER: B	
250. A link is said to be	link if it is between pages with the same domain name.
A. intrinsic.	
B. transverse.	
C. direct.	
D contrast	

ANSWER: A

Staff Name LAXMI.SREE.B.R.