	Choose training data		Decision Trees
Which of these terms describes the first major task in the data classification process?	Classify	Which of these is typically used to represent the sought-	Mathematical formula
	Learning	after mapping function in the first step of the classification process?	Classification rules
	Analyze the training data for possible "noise" in the database		All of these answer choices are correct.
In BBNs, each arc in the acyclic graph represents:	An educated guess as to a causal relationship between the two connected nodes	This type of classification builds a classifier using both labeled and unlabeled data.  Semi-supervised classification Multi-class classification Instance-based	
	None of these answer choices are correct.		Multi-class classification
	The probabilistic dependency of the two connected nodes		Instance-based
	A non-dependent relationship of the two connected nodes		Support vectors
Clustering is an approach that uses which of these learning techniques?	Examples		Pruning Analysis
	Listening	If the classes of the training data are an unknown, we can apply which of these computational algorithms to	Clustering
	Observation	attempt to find useable classes?	Binary Sort
	All of these answer choices are correct.		Bayesian Analysis
Exactly matching sub- sequences of the time-series			No training set exists with
Mining time-series data often involves:	against a similar preselected subsequence		even class labels for normal or anomalous objects
	Analyzing random sub- sequences from the series for known patterns	Which of these situations would be considered anomaly	None of these answer choices are correct.
	None of these answer choices are correct.	detection in a semi- supervised mode?	Training set exists with full information needed about both normal and anomalous objects
ANSWER:	Searching for data sequences in the series that are similar to a preselected "query" sequence	<b>→</b>	Training set exists with information needed for normal objects only
Hierarchical clustering methods:	All of these answer choices are correct.	The most useful feature of CLIQUE is that:	It is based on an already familiar algorithm, so its properties are well understood It can summarize the list of
	Are always top-down in their approach to forming hierarchies		cells that comprise a cluster with a small set of inequalities
	Are impervious to the choice of split/merge points		None of these answer choices are correct.
	Start with individual objects as clusters or the entire data set as a single cluster		It finds clusters in subspaces efficiently
	<ul> <li>Detection of books of interest to a library client</li> </ul>		Trend movement over time
Which of these is not typically thought to be an application area where outlier or anomaly detection is paramount?	Ecosystem disturbances	If we find the same four five- second sub-sequences occur, in order, every 45 seconds in	Cyclic movement over time
	Fraud detection	a radio signal, this is an example of a:	Seasonal variation movement over time
	Intrusion detection		Random movement over time