1.	Which of the following is a TRUE statement about classification?	1/1 point
	In a classification problem, the target variable has only two possible outcomes.	
	Classification is an unsupervised task.	
	Classification is a supervised task.	
	⊘ Correct	
	That's correct!	
2	In which whose are woodel negrous store adjusted?	1/1
2.	In which phase are model parameters adjusted?	1/1 point
	Testing phase	
	Training phase	
	Model parameters are constant throughout the modeling process.	
	O Data preparation phase	
3.	Which classification algorithm uses a probabilistic approach?	1/1 point
٥.		1/1point
	○ k-nearest-neighbors	
	one of the above	
	O decision tree	
	naive bayes	
4.	What does the 'k' stand for in k-nearest-neighbors?	1/1 point
		2 / 2 point
	the number of samples in the dataset	
	the distance between neighbors: All neighboring samples that are 'k' distance apart from the sample	
	are considered in classifying that sample.	
	the number of training datasets	
	the number of nearest neighbors to consider in classifying a sample	
	⊘ Correct	
	That's correct!	
5.	During construction of a decision tree, there are several criteria that can be used to determine when a node	1/1 point
	should no longer be split into subsets. Which one of the following is NOT applicable?	
	The value of the Gini index reaches a maximum threshold.	
	The number of samples in the node reaches a minimum threshold.	
	The tree depth reaches a maximum threshold.	
	All (or X% of) samples have the same class label.	
	⊘ Correct	
	That's correct!	
6.	Which statement is true of tree induction?	1/1 point
	O For each node, splits on all variables are tested to determine the best split for the node.	
	All of these statements are true of tree induction.	
	An impurity measure is used to determine the best split for a node.	
	You want to split the data in a node into subsets that are as homogeneous as possible	
	You want to split the data in a node into subsets that are as nomogeneous as possible	
	⊘ Correct	
	That's correct!	
7.	What does 'naive' mean in Naive Bayes?	1/1 point
	The model assumes that the input features are statistically independent of one another. The 'naïve' in	
	the name of classifier comes from this naïve assumption.	
	O The full Bayes' Theorem is not used. The 'naive' in naive bayes specifies that a simplified version of	
	Bayes' Theorem is used.	
	The Bayes' Theorem makes estimating the probabilities easier. The 'naïve' in the name of classifier	
	comes from this ease of probability calculation.	
	⊘ Correct	
	That's correct!	
8.	The feature independence assumption in Naive Bayes simplifies the classification problem by	1/1 point
	ignoring the prior probabilities altogether.	
	assuming that the prior probabilities of all classes are independent of one another.	
	allowing the probability of each feature given the class to be estimated individually.	
	assuming that classes are independent of the input features.	
	⊘ Correct	
	That's correct!	