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	on Thursday, 26 April 2018, 10:48				
	tate Finished  I on Thursday, 26 April 2018, 11:03				
	ten 14 mins 57 secs				
Grade	<b>5.00</b> out of 8.00 ( <b>63</b> %)				
Question 1					
Correct Mark 1.00 out of 1.00  Flag question	A1	Р	N		
	а	7	0		
	b	1	4		
	A2	Р	N		
	х	5	1		
	у	3	3		
	Given the distribution of positive and negative samples for attributes A1 and A2, which is the best attribute for splitting?  Select one:				
	a. A2				
	<ul><li> b. They are the same</li><li> e. A1 √</li></ul>				
	d. There is not enough information to answer the question				
-	The correct answer is: A1				
Question 2	Suppose that an item in a leaf node N exists in every path. Which one is correct?				
Incorrect					
Mark 0.00 out of	Select one:  a. N's minimum possible support is equal to the number of paths.				
	b. N co-occurs with its prefix in every transaction.				
	<ul><li>c. For every node P that is a parent of N in the fp tree, confidence(P-&gt;N) = 1</li></ul>				
-	The correct answer is: N's minimu	m possible support is equal to the nun	nber of paths.		
Question 3	What is a correct pruning strateg	y for decision tree induction?			
Correct					
Mark 1.00 out of	Select one:  a. Remove attributes with lowest information gain.				
1.00	b. Choose the model that maximizes L(M) + L(M D)				
	c. Apply Maximum Description Le	ength principle			
	■ d. Stop partitioning a node when either positive or negative samples dominate the samples of the other class.				
-	The correct answer is: Stop partitioning a node when either positive or negative samples dominate the samples of the other class.				
Question 4	Fundamentally, why clustering is	considered an unsupervised machine	learning technique?		

Correct

1.00

Mark 1.00 out of

Flag question

Select one:

a. Number of clusters are not known.

b. The clusters can be different with different initial parameters.

	□ d. The features are not known.
	The correct answer is: <b>The class labels are not known</b> .
Question 5 Correct Mark 1.00 out of 1.00 Flag question	When using bootstrapping in Random Forests, the number of different data items used to construct a single tree is:  Select one:  a. The same as the size of the training data set  b. Smaller than the size of the training data set with high probability  c. Depends on the outcome of the sampling process, and can be both smaller or larger than the training set  d. Of order square root of the size of the training set with high probability
	The correct answer is: Smaller than the size of the training data set with high probability
Question 6 Correct Mark 1.00 out of 1.00  Frag question	Which of the following is true for a density based cluster C?  Select one:  a. Any two points in C must be density reachable. Border points may belong to more than one cluster  b. Any two points in C must be density connected. Border points may belong to more than one cluster  c. Any two points in C must be density reachable. Each point belongs to one, and only one cluster  d. Any two points in C must be density connected. Each point belongs to one, and only one cluster
	The correct answer is: Any two points in C must be density connected. Border points may belong to more than one cluster
Question 7 Incorrect Mark 0.00 out of 1.00 Flag question	In an FP tree, the leaf nodes are the ones with:  Select one:  a. Least in the alphabetical order  b. Lowest confidence  c. None of the other options.
	The correct answer is: Lowest support
	The correct answer is: Lowest support
Question 8 Incorrect Mark 0.00 out of 1.00  Flag question	Suppose that q is density reachable from p. The chain of points that ensure this relationship are {t,u,g,r} Which one is FALSE?  Select one:  a. {t,u,g,r} have to be all core points. ×  b. q has to be a border point  c. p and q will also be density-connected  d. p has to be a core point

The correct answer is: **q has to be a border point** 

Finish review (https://moodle.epfl.ch/mod/quiz/view.php?id=983960)