1.	Which of the following is not true about Machine Learning?	1 / 1 ponto
	Machine Learning models help us in tasks such as object recognition, summarization, and recommendation.	
	Machine Learning models iteratively learn from data and allow computers to find hidden insights.	
	Machine Learning was inspired by the learning process of human beings.	
	Machine learning gives computers the ability to make decision by writing down rules and methods and being explicitly programmed.	
	Correto Correct! Machine learning can learn without explicitly being programmed to do so.	
2.	Which of the following is not a Machine Learning technique?	1 / 1 ponto
	Clustering	
	O Regression/Estimation	
	Heuristics	
	Associations	
	Correto Correct! The common machine learning techniques are regression/estimation, classification, clustering, association, anomaly detection, sequence mining, and recommendation systems.	

3.	When would you use Multiple Linear Regression ?	0 / 1 ponto
	When we would like to predict the impacts that weather and temperature have on crop yield.	
	Predict whether or not a customer switches to another brand based on income, education, etc.	
	Group genetic markers to identify family ties.	
	None of the above.	
	Incorreto Incorrect. Please review video Multiple Linear Regression.	
4.	Which one is not an example of a classification problem?	0 / 1 ponto
	To predict the category to which a customer belongs to.	
	To predict whether a customer responds to a particular advertising campaign or not.	
	To predict the amount of money a customer will spend in one year.	
	To predict whether a customer switches to another provider/brand.	
	Incorreto Incorrect. Please review video Introduction to Classification.	
5.	Which of the following statements are TRUE about Logistic Regression? (select two)	0 / 1 ponto
	Logistic regression finds a regression line through the data to predict the probability of a point belonging to a class.	

	Não deve ser selecionado Incorrect. Logistic regression applies the sigmoid function that always returns a value between 0 and 1.	
	Logistic regression can be used both for binary classification and multi- class classification.	
	☐ In logistic regression, the dependent variable is always binary.	
	Logistic regression is analogous to linear regression but takes a categorical/discrete target field instead of a numeric one.	
	Correto Almost correct! There are other true statements about Logistic Regression.	
6.	What type of clustering divides the data into non-overlapping subsets without any cluster-internal structure?	1 / 1 ponto
	k-mean clustering	
	Hierarchical clustering	
	OBSCAN	
	None of the above	
	Correto Correct! Other algorithms divide data into clusters of varying shapes.	

7.	Which one best describes the clustering process for k-means clustering?	1 / 1 ponto
	k-means creates clusters by grouping data points with similar labels.	
	k-means clustering creates a tree of clusters.	
	k-means divides the data into clusters with minimal overlap such that there are low chances of dissimilar samples in the same cluster.	
	The objective of k-means is to form clusters in such a way that similar samples go into a cluster, and dissimilar samples fall into different clusters.	
	Correto Correct! K-Means seeks to create non-overlapping clusters.	
8.	What is a hyperplane in SVM?	0 / 1 ponto
	○ Features	
	O Decision boundaries	
	Decision boundariesData points	
	O Data points	
9.	Data pointsClassesIncorreto	0 / 1 ponto

O Clustering	
Regression	
All of the above	
Incorreto Incorrect. Please review video Evaluation Metrics in Classification.	
0. When are decision trees more suitable than regression trees?	1 / 1 ponto
O Some of the independent variables are categorical.	
There are no continuous independent variables.	
The dependent variable is continuous instead of categorical	
The dependent variable is categorical instead of continuous	
 Correto Correct! Regression trees are best used when the task is predicting a continuous response. 	
0	 Regression ● All of the above ※ Incorreto Incorrect. Please review video Evaluation Metrics in Classification. When are decision trees more suitable than regression trees? Some of the independent variables are categorical. There are no continuous independent variables. The dependent variable is continuous instead of categorical ● The dependent variable is categorical instead of continuous ✓ Correto Correct! Regression trees are best used when the task is predicting a