

survival8

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BITS WILP Data Mining Quiz-2 2017-H2

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Question 1

Hierarchical agglomerative clustering can be stopped at a certain point if we want to create n ($n < \text{data-points}$) number of clusters.

Select one:

True
False

Feedback

The correct answer is 'True'.

Question 2

k-means algorithm always converges

Select one:

True
False

Feedback

The correct answer is 'False'.

Question 3

K-means clustering requires that we give it the number of clusters we want to be created.

Select one:

True
False

Feedback

The correct answer is 'True'.

Question 4

Nested cluster diagram can be used to represent k-means also.

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Select one:
True
False

Feedback

The correct answer is 'False'.

Question 5

Analysis of patterns for stock market prediction is an example of:

Select one:
evolution analysis
outlier analysis
correlation
characterization and discrimination

Feedback

The correct answer is: evolution analysis

Question 6

Given a single conditional FP-tree ending in a given frequent 1-itemset, we can find all the other frequent itemsets ending in any frequent itemset.

Select one:
True
False

Feedback

The correct answer is 'False'.

Question 7

If k is fixed in k-means we always get same clusters of points.

Select one:
True
False

Feedback

The correct answer is 'False'.

Question 8

FP-growth is fast due to the hash tree structure that is used to store candidate itemsets.

Select one:
True
False

Feedback

The correct answer is 'False'.

Question 9

A supermarket database has 2000 transactions, out of which 40 include both items A and B, and 16 out of these 40 also contain item C. In total, 100 transactions contain C.

The Lift of association rule "If A and B are purchased, then C is purchased in the same transaction" is:

Select one:
2
8

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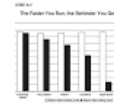
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4
16

Feedback

The correct answer is: 8

Question 10

FP-growth has an advantage over apriori algorithm that:

Select one:

- a. FP-tree is a compact structure whereas apriori tree is complex
- b. FP-growth can find all frequent itemsets
- c. FP-growth works by just creating a binary tree structure
- d. no candidate itemsets need to be generated

Feedback

The correct answer is: no candidate itemsets need to be generated

Question 11

Number of groups is known apriori in:

Select one:

- a. classification
- b. outlier
- c. clustering
- d. preprocessing

Feedback

The correct answer is: classification

Question 12

In association analysis, support is a symmetric measure of associations.

Select one:

- True
- False

Feedback

The correct answer is 'True'.

Question 13

If in random sub-sampling repetition $k=1$, it is same as:

Select one:

- a. stratified subsampling
- b. bootstrap
- c. k-fold cross-validation
- d. holdout

Feedback

The correct answer is: holdout

Question 14

In 10-fold cross validation, sample data is partitioned into 10 equal subsamples. Of the 10 subsamples, a single subsample is retained as the validation data for testing the model, and the remaining 9 subsamples are used as training data. This is done exactly once and the result of testing is final. True or False?

Select one:

- True
- False

Feedback

The correct answer is 'False'.

Question 15

The table below shows marks in math (x) and marks in statistics (y).

Student	x_i	y_i
1	95	85
2	85	95
3	80	70
4	70	65
5	60	70

What is the value of the slope (m) of simple regression line ?

Select one:

- ☐ a. 0.744
☐ b. 0.444
☐ c. 0.644
☐ d. 0.544

The table below shows marks in math (x) and marks in statistics (y).

What is the value of the slope (m) of simple regression line ?

Select one:

- a. 0.744
 b. 0.444
 c. 0.644
 d. 0.544

Feedback

The correct answer is: 0.644

Question 16

The following data is about a poll that occurred in 3 states. In state1, 50% of voters support Party1, in state2, 60% of the voters support Party1, and in state3, 35% of the voters support Party1. Of the total population of the three states, 40% live in state1, 25% live in state2, and 35% live in state3. Given that a voter supports Party1, what is the probability that he lives in state2?

Select one:

- 0.62
 0.32
 0.52
 0.42

Feedback

The correct answer is: 0.32

Question 17

Single link or Complete link in hierarchical clustering is used to determine the inter-cluster distance. The clustering algorithm always selects the nearest clusters to merge.

Select one:

- True
 False

Feedback

The correct answer is 'True'.

Question 18

In classification, we evaluate the performance of a classifier on training data

Select one:

- True
 False

Feedback

The correct answer is 'False'.

Question 19

The following a valid FP-tree: True or False?

The following a valid FP-tree: True or False?

Item	Supp. Count	Node Link
f	4	
c	4	
a	4	
b	3	
m	3	
p	3	

Select one:

☐ True

☐ False

Select one:
True
False

Feedback

The correct answer is 'False'.

Question 20

Once we get all frequent itemsets using a method such as like apriori, we can use the support counts to generate all strong association rules.
Select one:
True
False


Feedback

The correct answer is 'False'.

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