

E20-065^{Q&As}

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QUESTION 1

What is an effective use of color in visualization?

- A. Use self-explanatory colors so a legend is unnecessary
- B. Maximize use of color to make a more lasting impression
- C. Use high contrast colors such as red and blue
- D. Minimize use of color except for emphasis

Correct Answer: C

QUESTION 2

What is the maximum degree of a node in an undirected graph with 50 nodes\?

- A. 49
- B. 50
- C. 1250
- D. 2500

Correct Answer: A

QUESTION 3

What is a characteristic of the trigram language model?

- A. Based on the second-order Markov process
- B. Equivalent to trigram hidden Markov models
- C. Uses smoothing to reduce the high dimensionality in text
- D. Can be used for part-of -speech tagging

Correct Answer: A

QUESTION 4

After a client submits a job request to the YARN ResourceManager, what happens next?

- A. The scheduler allocates a container to run an ApplicationMaster
- B. The ResourceManager allocates containers to run map and reduce tasks

- C. The Resource Manager requests load data from the NodeManagers
- D. The ApplicationManager starts an ApplicationMaster

Correct Answer: D

QUESTION 5

What is the maximum number of edges in an undirected graph of 10 nodes?

- A. 45
- B. 90
- C. 100
- D. 9

Correct Answer: A

QUESTION 6

What is a characteristic of lemmatization?

- A. Can be performed by calling the synset () function on a lemma in LNTK
- B. Can be performed by calling the lemma() function on a synset in LNTK
- C. Reduces words of variant forms to their base forms based on a set of heuristics
- D. Reduces words of variant forms to their base forms based on a dictionary

Correct Answer: D

QUESTION 7

Consider the two sentences below. I mailed my credit card application to the bank We walked along the river bank until we came to a waterwheel

What type of NLP ambiguity might occur when interpreting the word "bank"?

- A. Discourse
- B. Syntactic
- C. Semantic
- D. Acoustic

Correct Answer: C

QUESTION 8

In a social network, what does it mean for a node to have a high degree but low betweenness?

- A. The node is adjacent to a few nodes, each of each has high Page Ranks.
- B. The node has the only edge connecting its community to the rest of the graph.
- C. The node can be easily bypassed by communications taking other shorter paths.
- D. The node acts as the hub of the graph.

Correct Answer: D

QUESTION 9

You develop a Python script "logistic.py" to evaluate the logistic function denoted as $f(y)$ for a given value y that includes the following Pig code:

```
Register '\\logistic.py\\' using jython as udf;  
z = FOREACH y GENERATE $0, udf.logistic ($0);  
DUMP z;
```

What is the expected output when the Pig code is executed?

- A. 0
- B. Jython is not a supported language
- C. Value of $f(y)$ for ally
- D. Tuples $(y, f(y))$

Correct Answer: D

QUESTION 10

What are three of the eight visual variables?

- A. Selection, orientation, and mark
- B. Size, separation, and orientation
- C. Position, size, and orientation
- D. Position, texture, and selection

Correct Answer: C

QUESTION 11

In a connected, undirected graph of 5 nodes with 10 edges, how many more edges need to be added to make the clustering coefficient of every node equal 1 ?

- A. 0
- B. 5
- C. 10
- D. 15

Correct Answer: A

QUESTION 12

In a typical multinomial logistic regression analysis involving six outcomes (class labels) and three input variables, how many model parameters will need to be estimated?

- A. 9
- B. 18
- C. 20
- D. 24

Correct Answer: B

QUESTION 13

Which graph structure would best model the relationship between job seekers and employers?

- A. Bipartite
- B. Weighted
- C. Directed acyclic
- D. Ranked

Correct Answer: A

QUESTION 14

What is the most likely reason for an HBase table to contain millions of columns?

- A. Data is imported from a relational database table

- B. Data is stored in the column qualifier
- C. There are thousands of columns families
- D. The column names are randomly generated

Correct Answer: B

QUESTION 15

What is a property of a good color model for ordinal data?

- A. Uses a rainbow-like color map for distinction of categories
- B. Uses a rainbow-like color map for ease of display and printing
- C. Uses perceptually ordinal colors with just-noticeable increments
- D. Uses perceptually ordinal colors with linear, perceptual increments

Correct Answer: D

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