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Question 1

What is a characteristic of stop words?

Options:

A- Used in term frequency analysis

B- Include words such as 'a', 'an', and 'the'

C- Meaningful words requiring a parser to stop and examine them

D- Don't occur often in text

Answer:

B

Question 2

What best describes the meaning behind the phrase "Six Degrees of Separation'"?

Options:

A- Ability to use about six hops to reach any other node in an extremely large social network

B- Erdos number of all scholars having written papers with Paul Erdos

C- Maximum number of edges between nodes in a graph with a diameter of six

D- Typical distance between nodes that are connected by triadic closure

Answer:

A

Question 3

Question Type: MultipleChoice

In which step in the visualization lifecycle would you determine how the raw data is stored?

A- Visualization Planning

B- Data Preparation

C- Visualization Building

D- Discovery

Answer:

B

Question 4

Question Type: MultipleChoice

Why would a company decide to use HBase to replace an existing relational database?

Options:

A- It is required for performing ad-hoc queries.

B- Varying formats of input data requires columns to be added in real time.

C- The company's employees are already fluent in SQL.

D- Existing SQL code will run unchanged on HBase.

Answer:

A

Question 5

Question Type: **MultipleChoice**

What elements are needed to determine the time complexity of finding all the cliques of size k in social network analysis?

Options:

A- Eigenvector centrality and betwenness

B- Clique size and total number of nodes in the network

C- Number of edges in the network and centrality measure of the cliques

D- Clique size and betweenness centrality

Answer:

B

Question 6

Question Type: MultipleChoice

What best describes tokenization?

Options:

A- Adding lexical relations to the raw text

B- Converting text into the list of terms

C- Converting text into a list of unique terms

D- Reducing variant forms of tokens to their base forms

Answer:

B

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"?

Options:

A- Discourse

B- Syntactic

C- Semantic

D- Acoustic

Answer:

C

Question 8

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

Options:

A- Bipartite

B- Weighted

C- Directed acyclic

D- Ranked

Answer:

A

Question 9

Which HDFS feature protects against user errors causing accidental loss of data?

Options:

A- Encryption

B- Replication

C- Namenode federation

D- Snapshots

Answer:

B

Question 10

Question Type: MultipleChoice

What is an important simu-lation design consideration?

Options:

A- Ensure model Inputs align with reality

B- Use different seed values to regenerate results

C- For rare event models, minimize number of trials

D- A complex model is better than a simple model

Answer:

A