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Question 1

Question Type: MultipleChoice

Which of the following is an example of structured data?

Options:

- A- Video recordings
- B- Social media posts
- C- Photographs
- D- Phone numbers

Answer:

D

Explanation:

Structured data refers to any data that resides in a fixed field within a record or file, including data contained in relational databases and spreadsheets. Phone numbers, represented in a consistent format, are an example of structured data, as they can be easily organized in a database or spreadsheet. This contrasts with unstructured data like video recordings, social media posts, and photographs, which do

not follow a predictable format or structure. Reference: The classification of data types is a standard topic in IT education, covered under the CompTIA IT Fundamentals.

Question 2

Question Type: MultipleChoice

Which of the following explains the concept of database scalability?

Options:

- A-** The ability to move from one vendor database to another
- B-** The ability to increase resources easily as demand grows
- C-** The ability to move from a flat file database to a relational database
- D-** The ability to document the database schema automatically

Answer:

B

Explanation:

Database scalability refers to the capability of a database system to handle a growing amount of work, or its potential to be enlarged to accommodate that growth. Option B, the ability to increase resources easily as demand grows, is the correct answer because scalability involves expanding the capacity of the database as the data volume or the number of users increases, without compromising performance. Reference: CompTIA IT Fundamentals and other foundational IT resources discuss scalability in the context of database management and performance optimization.

Question 3

Question Type: MultipleChoice

Which of the following license types would be most cost effective for an organization if all users need to access software but not on a consistent basis?

Options:

A- Site

B- Single-use

C- Concurrent

D- Device

Answer:

C

Explanation:

A concurrent license would be most cost-effective for an organization where all users need access to software but not at the same time. Concurrent licenses allow a certain number of users to access the software simultaneously, regardless of who those users are. This type of licensing is efficient and economical for environments with variable software usage patterns. Reference: Licensing models and their applications are discussed in CompTIA IT Fundamentals, which includes various types of software licenses and their suitability for different organizational needs.

Question 4

Question Type: MultipleChoice

Which of the following troubleshooting steps happens before establishing a theory of probable cause?

Options:

- A- Document the lessons learned.
- B- Verify full system functionality.
- C- Identify the problem.
- D- Implement the solution.

Answer:

C

Explanation:

The step that happens before establishing a theory of probable cause in the troubleshooting process is identifying the problem. This involves gathering information from the user, observing the symptoms, and systematically ruling out factors that may not be relevant. This step is crucial as it sets the foundation for developing an accurate theory of what might be causing the issue. Reference: Identifying the problem is part of the systematic approach to troubleshooting taught in CompTIA IT Fundamentals, which outlines a structured process for resolving IT issues.

Question 5

Question Type: MultipleChoice

A programmer needs to specify how to store a test score entered using a web form. Which of the following would be best to use?

Options:

- A- Variable
- B- Vector
- C- Constant
- D- Array

Answer:

A

Explanation:

A variable is the best option to store a test score entered using a web form. In programming, variables are used to store data values that can change over time, such as user input. The variable can be set to store the score when the user submits it, allowing the program to manipulate or display the score later as needed. Reference: The use of variables for data storage and manipulation is a basic programming concept covered in CompTIA IT Fundamentals and other introductory programming courses.

Question 6

Question Type: MultipleChoice

When a user types a web page name in an internet browser address field, this information is translated to an IP address behind the scenes. Which of the following is being used?

Options:

A- SMTP

B- DHCP

C- WPA

D- DNS

E- WEP

Answer:

D

Explanation:

DNS (Domain Name System) is used when a user types a webpage name (like www.example.com) into a browser's address field. DNS servers translate this domain name into the corresponding IP address so that the browser can load the appropriate website. This translation is essential for navigating the internet because web browsers communicate over IP addresses, not domain names. Reference: DNS is a fundamental network service discussed in CompTIA IT Fundamentals, which emphasizes its role in resolving human-friendly domain names to machine-readable IP addresses.

Question 7

Question Type: MultipleChoice

Which of the following describes plug-and-play installation?

Options:

- A- Managed driver installation
- B- Assisted driver installation
- C- Automatic driver installation
- D- Manual driver installation

Answer:

C

Explanation:

Plug-and-play installation refers to the technology that allows the operating system to detect and configure new devices automatically as soon as they are connected to the computer, without the need for user intervention. This typically involves the automatic installation of the necessary drivers that enable the operating system to communicate with the hardware device, making the device ready for use quickly and efficiently. Reference: Plug-and-play technology is a fundamental concept in understanding hardware and operating system interactions, as covered in the CompTIA IT Fundamentals and other basic IT educational materials.

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