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Question: 1

Which of the following is the most important consideration when opening a file on an OS GUI?

- A. File extension
- B. Default permissions
- C. Backup policy
- D. Data compression

Answer: A

Explanation:

The most important consideration when opening a file on an Operating System Graphical User Interface (OS GUI) is the file extension. A file extension identifies the type of file and determines which software application can open it. In the official CompTIA ITF+ Student Guide, it is stated that: "The last part of the file name represents an extension, which describes what type of file it is and is used by Windows to associate the file with an application."

"Files are usually opened by double-clicking them. You may want to open a file in a software product other than the default, however. When you right-click a file, the shortcut menu displays a list of suitable choices, or you can choose Open With and browse for a different application. You can also use the Default Programs applet to configure file associations."

"Do not change a file's extension if it is shown. If you delete or change the extension, the file will not be associated with the correct program for opening it."

This means the OS uses the file extension to decide which application to use to open a file. Changing or deleting the extension can result in the file not opening properly because it no longer matches the program expected to open it.

Reference:

Official CompTIA ITF+ Student Guide Book (Page 299-300, 301)

Question: 2

A database has the following schema (as shown in the images above):

ID	Name	Age
2	John	36
6	Jane	39
12	Allison	42
21	Anna	29

Which of the following is the number of records in the schema?

- A. 3
- B. 4

- C. 12
- D. 21

Answer: B

Explanation:

In the database schema shown in the images, there are four rows (excluding the header row) representing data entries for four people (John, Jane, Allison, and Anna).

Each row represents a record in the database table, also known as a tuple. The term record refers to a complete set of fields (ID, Name, and Age) for one entry. So, counting the four rows:

John

Jane

Allison

Anna

That makes a total of 4 records in the database schema.

Reference:

The official CompTIA ITF+ Study Guide states:

"A record (or tuple) in a database is a complete set of fields that represents one entity – for example, a single row in a database table."

Thus, the correct answer is B.

Question: 3

Which of the following devices extends the range of a network?

- A. Modem
- B. Server
- C. Host firewall
- D. Access point

Answer: D

Explanation:

An access point is a networking hardware device that allows wireless devices to connect to a wired network using Wi-Fi or related standards. It helps extend the range of a wireless network by creating additional coverage areas. This is directly outlined in CompTIA ITF+ documentation:

"A wireless access point (AP) is a device that allows wireless clients to connect to a wired network. It serves to extend or broaden the wireless coverage."

In contrast:

A modem connects to the internet via an ISP.

A server provides network services, not range.

A host firewall protects a single device or network; it does not expand connectivity.

Thus, the most appropriate answer is D.

Question: 4

A user receives a notification about a new software vulnerability. Which of the following is the best way to secure the software?

- A. Configuring a firewall
- B. Applying updates
- C. Enabling authentication
- D. Uninstalling the program

Answer: B

Explanation:

When a new vulnerability is discovered in software, the best way to secure it is by applying updates (patches) released by the software vendor. According to the CompTIA ITF+ objectives:

“Vendors regularly release software updates and security patches to fix vulnerabilities that could be exploited by attackers. Installing these patches promptly is crucial for maintaining system security.”

Although configuring a firewall and authentication improves overall security, they do not directly patch or fix the vulnerability. Uninstalling may be an option only if a patch is unavailable or the software is no longer needed. Therefore, the best and most proactive response is B: Apply updates.

Question: 5

Which of the following is used to determine whether users accessed inappropriate online content?

- A. System logs
- B. Cookie data
- C. Location tracking
- D. Web browser history

Answer: D

Explanation:

The web browser history stores records of websites that a user has visited. This is typically the most straightforward and accessible method for determining whether users accessed inappropriate or unauthorized online content. The CompTIA ITF+ documentation explains:

“Web browsers maintain a history of visited URLs, which can be used for monitoring and auditing user activity, including detecting policy violations regarding internet usage.”

System logs are broader and generally capture system or security events.

Cookies store session and tracking data but don't always show what content was accessed.

Location tracking helps with geolocation, not content monitoring.

Therefore, the correct choice is D.

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