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Question 1

Question Type: MultipleChoice

of the following would most likely be used to protect the intellectual property of printed materials?

Options:

A- Trademark

B- Cease and desist

C- Patent

D- Copyright

Answer:

D

Explanation:

Copyright is the most likely form of protection used for the intellectual property of printed materials. Copyright law protects original works of authorship, including literary, dramatic, musical, and artistic works, such as poetry, novels, movies, songs, computer software, and architecture. This would include the text and images within printed materials. A copyright gives the owner the exclusive right to reproduce

the work, prepare derivative works, distribute copies, and display the work publicly

Question 2

Question Type: MultipleChoice

Which of the following storage types presents the most likely security risk?

Options:

A- Flash

B- NAS

C- SSD

D- Cloud

Answer:

D

Explanation:

Cloud storage presents the most likely security risk among the options provided. While all storage types have their own security concerns, cloud storage is often seen as more risky because it involves storing data on servers managed by third parties. This means that the data is out of the direct control of the user, and security is largely dependent on the measures put in place by the cloud service provider. Additionally, data in the cloud can be accessed from anywhere with an internet connection, increasing the potential attack surface

Question 3

Question Type: MultipleChoice

A programmer is modifying the code of an existing application to include an additional subroutine that is needed for a new product line. Which of the following will most likely be added to the existing code?

Options:

A- Branching

B- Looping

C- Pseudocode

D- Syntax errors

Answer:

A

Explanation:

Branching in programming refers to the use of decision-making structures within the code, which allows the execution flow to change based on conditions. When a programmer needs to add a new subroutine that operates under specific conditions within an existing application, branching (such as if-else or switch-case statements) would be used to integrate this new functionality seamlessly. This allows the application to execute different sections of code based on the requirements of the new product line. Reference: Programming fundamentals, including the concepts of loops, branches, and functions, are often discussed in introductory programming courses and texts, which are also foundational components of IT education as per CompTIA's guidelines.

Question 4

Question Type: MultipleChoice

Which of the following methods of cooling is most commonly used for desktops?

Options:

- A- Active
- B- External
- C- Cryogenics
- D- Water

Answer:

A

Explanation:

Active cooling is the most common method used for cooling desktop computers. It involves the use of fans and heatsinks to dissipate heat generated by the computer's components, particularly the CPU. Active cooling systems are designed to pull warm air away from the processor and other crucial components, then expel it from the chassis to maintain optimal operating temperatures. Reference: Knowledge of different cooling methods is part of basic hardware education, typically included in CompTIA IT Fundamentals and A+ curriculum.

Question 5

Question Type: MultipleChoice

Which of the following would most likely be used to verify a user is following an AUP?

Options:

- A- Application logs
- B- Security questions
- C- Access controls
- D- Biometric scans

Answer:

A

Explanation:

Application logs are used to record events and actions within software applications, including user activities. These logs can be analyzed to verify whether a user is following an Acceptable Use Policy (AUP) by providing evidence of compliance or non-compliance based on recorded actions. This method is effective for auditing and ensuring that users are adhering to organizational policies regarding the use of IT resources. Reference: The importance of monitoring and logs in enforcing security policies is emphasized in IT fundamentals and security practices, such as those outlined by CompTIA Security+ and IT Fundamentals.

Question 6

Question Type: MultipleChoice

A technician wants to reset the boot order on a computer. Which of the following would the technician most likely use?

Options:

A- Motherboard

B- BIOS

C- SSD

D- CPU

Answer:

B

Explanation:

The Basic Input/Output System (BIOS) is firmware installed on the motherboard used for hardware initialization during the boot-up process and provides runtime services for operating systems and programs. To reset the boot order on a computer, a technician would access the BIOS setup utility. This utility allows the modification of the sequence in which the hardware storage devices are read by the computer during boot-up. Reference: Understanding BIOS and its role in system boot processes is a fundamental topic in IT, especially covered in CompTIA A+ and IT Fundamentals certifications.

Question 7

Question Type: MultipleChoice

A company allows employees to use their own devices for work. Which of the following is the best security method for such devices?

Options:

- A- Update the device software.
- B- Enable passwords.
- C- Enable host IDS.
- D- Remove browser cookies.

Answer:

A

Explanation:

The best security method for employees who use their own devices for work is to keep the device software updated. Regular software updates include security patches that address vulnerabilities, reducing the risk of exploits. This preventative measure is crucial for maintaining the security integrity of not only the individual devices but also the corporate network they connect to. Reference: Mobile and device security, including the importance of software updates, is covered in CompTIA IT Fundamentals, highlighting the best practices for securing devices used in a corporate environment.

Question 8

Question Type: MultipleChoice

Which of the following connection types provides the fastest internet speed?

Options:

- A- Cellular
- B- Asymmetric DSL
- C- Symmetric DSL
- D- Fiber to the curb

Answer:

D

Explanation:

Among the listed internet connection types, 'Fiber to the curb' (FTTC) generally provides the fastest speeds. FTTC involves running fiber-optic cables close to the curbs near homes or businesses, with the remaining connection to the premises being made through traditional coaxial or ethernet cabling. This provides higher speeds compared to traditional DSL (Digital Subscriber Line) or cellular connections. Reference: Networking and internet technologies, including different types of broadband connections, are thoroughly explored in CompTIA IT Fundamentals, emphasizing the speed and reliability differences among various internet access technologies.

Question 9

Question Type: MultipleChoice

A user has an HDD that is almost at full capacity. Which of the following operating system features should be used to free up some space without deleting any files?

Options:

- A- Compression
- B- Encryption
- C- Journaling
- D- Formatting

Answer:

A

Explanation:

To free up space on an HDD without deleting files, using the operating system's compression feature is the best approach. Compression reduces the size of files on the disk by using algorithms to minimize the space they take up, thus freeing up storage capacity while keeping the files accessible. Reference: File system management, including the use of compression to optimize storage, is a topic discussed in the CompTIA IT Fundamentals, which also covers system utilities and management practices.

Question 10

Question Type: MultipleChoice

Which of the following is an example of PII? (Select two).

Options:

- A- Full name
- B- Date of birth
- C- Employment status
- D- School attended
- E- Social media username
- E- City of residence

Answer:

A, B

Explanation:

Personally Identifiable Information (PII) refers to data that can be used to identify, contact, or locate a single person, or to identify an individual in context. A full name and date of birth are classic examples of PII because they can directly identify a person. Other options listed may relate to a person's life but do not specifically and directly identify an individual in most contexts. Reference: The definition and examples of PII are part of data privacy topics covered under the CompTIA IT Fundamentals, which discusses security measures and identification data types.

Question 11

Question Type: MultipleChoice

A technician is upgrading a company's Wi-Fi from 802.11a to support a range of 115ft (35m) indoors and a speed of 700Mbps. Which of the following should the technician select for the upgrade?

Options:

- A- 802.11ac
- B- 802.11b
- C- 802.11g
- D- 802.11n

Answer:

A

Explanation:

The 802.11ac standard supports higher data rates, improved capacity, and better performance in dense environments. It offers significant improvements over previous standards like 802.11a, 802.11b, 802.11g, and 802.11n, with support for speeds up to several gigabits per second under optimal conditions. For a range of 115ft indoors and a speed of 700Mbps, 802.11ac is the most suitable choice due to its enhanced capabilities to handle higher speeds and greater ranges than its predecessors. Reference: Details about various Wi-Fi standards including their range and speed capabilities are covered in IT certifications such as CompTIA Network+ and are essential knowledge for IT professionals.

Question 12

Question Type: MultipleChoice

A programmer creates an object to retrieve customer names from a database. Which of the following best describes the object that is retrieving the names?

Options:

- A- Variable
- B- Attribute
- C- Method
- D- Looping

Answer:

C

Explanation:

In object-oriented programming (OOP), a method is a function associated with an object and is used to perform operations on that object. When a programmer creates an object to retrieve customer names from a database, the operation that retrieves the names is typically encapsulated in a method. This method might be called something like `getCustomerNames()` and is responsible for querying the database and returning the results. Reference: Basic concepts of OOP, including objects and methods, are foundational topics in programming and are discussed in CompTIA IT Fundamentals and other programming guides.

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