



CompTIA

Exam Questions FC0-U61

CompTIA IT Fundamentals+ Certification Exam

NEW QUESTION 1

Which of the following categories describes commands used to extract information from a database?

- A. DDL
- B. DDR
- C. DLL
- D. DML

Answer: D

Explanation:

DML stands for Data Manipulation Language, which is a category of commands used to extract information from a database, such as SELECT, INSERT, UPDATE, and DELETE. These commands allow a programmer to query, modify, and delete data from tables and views in a database. DDL stands for Data Definition Language, which is a category of commands used to create and modify the structure of a database, such as CREATE, ALTER, and DROP. These commands allow a programmer to define tables, views, indexes, and other objects in a database. DDR stands for Data Recovery Language, which is not a standard category of commands in SQL (Structured Query Language), the most common language for interacting with databases. DLL stands for Dynamic Link Library, which is not related to databases at all. It is a file format that contains executable code and resources that can be used by multiple applications on Windows operating systems. References: CompTIA IT Fundamentals (ITF+) Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Software Development Concepts, page 142

NEW QUESTION 2

Which of the following relational database constructs is used to ensure valid values are entered for a column?

- A. Schema
- B. Permissions
- C. Constraint
- D. Column

Answer: C

Explanation:

A constraint is a rule or a restriction that is applied to a column or a table in a relational database to ensure that only valid values are entered. Constraints help to maintain the integrity, accuracy, and consistency of the data. For example, a constraint can be used to specify that a column must not contain null values, or that a column must contain unique values, or that a column must match a value in another table¹². References: = CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals³; Constraints in Relational Database Model - Online Tutorials Library

NEW QUESTION 3

A user is trying to set up a new wireless access point. Which of the following should the user do first?

- A. Change the SSID to a unique name.
- B. Change the default password.
- C. Enable WPA2 encryption.
- D. Enable the highest available wireless standard.

Answer: B

Explanation:

A wireless access point (WAP) is a device that allows wireless devices to connect to a wired network using Wi-Fi or Bluetooth. A WAP usually has a default configuration that is set by the manufacturer, which may include a default password, SSID (service set identifier), encryption type, and wireless standard. The default password is often weak or well-known, which makes the WAP vulnerable to unauthorized access or hacking. Therefore, the first thing that a user should do when setting up a new WAP is to change the default password to a strong and unique one. This will help secure the WAP and prevent unwanted changes or attacks. Changing the SSID to a unique name, enabling WPA2 encryption, and enabling the highest available wireless standard are also important steps to improve the security and performance of the WAP, but they should be done after changing the default password.

NEW QUESTION 4

Meaningful and accurate reporting is essential to retailers in making business decisions while managing inventory. Which of the following offers the BEST assistance in generating reports?

- A. Data capture and collections
- B. Asset inventory inputs
- C. Sales statistics
- D. Average loss output

Answer: A

Explanation:

Data capture and collections are the processes of gathering and organizing data from various sources, such as transactions, surveys, sensors, etc. Data capture and collections would offer the best assistance in generating reports for retailers because they can provide accurate, relevant, and timely data that can be used for analysis and decision making. Asset inventory inputs, sales statistics, and average loss output are not processes that offer the best assistance in generating reports for retailers because they are not sources of data capture and collections, but rather types or results of data analysis. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 200.

NEW QUESTION 5

Which of the following would indicate the FASTEST processor speed?

- A. 3.6GHz
- B. 3.6MHz
- C. 3.6Mbps

D. 3.6Gbps

Answer: A

Explanation:

Processor speed is measured in hertz (Hz), which is the number of cycles per second that the processor can perform. The higher the processor speed, the faster the processor can execute instructions. Gigahertz (GHz) is equal to one billion hertz, while megahertz (MHz) is equal to one million hertz. Megabits per second (Mbps) and gigabits per second (Gbps) are units of data transfer rate, not processor speed. Therefore, 3.6GHz would indicate the fastest processor speed among the options given. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 3: Computing Components, page 114.

NEW QUESTION 6

A help desk technician encounters an issue and wants to find out if a colleague has encountered the same issue before. Which of the following should the technician do FIRST?

- A. Check Knowledge Base.
- B. Search local logs.
- C. Research possible theories.
- D. N
- E. of users.

Answer: A

Explanation:

A Knowledge Base is a collection of information that provides solutions to common problems or issues encountered by IT professionals. A Knowledge Base can be accessed online or offline, and can be maintained by an organization or a vendor. A help desk technician should check the Knowledge Base first before trying other methods, as it may contain the answer or a workaround for the issue. References: CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 6: Security

NEW QUESTION 7

Which of the following computing devices would be used to provide a centralized means to distribute services to a group of clients and usually possesses a role on a LAN?

- A. Laptop
- B. Workstation
- C. Mobile phone
- D. Server

Answer: D

Explanation:

A server is a computing device that provides a centralized means to distribute services to a group of clients and usually possesses a role on a LAN. A server can perform various functions, such as hosting applications, databases, files, web pages, email, or print jobs. A server can also manage network resources, such as security, user accounts, or backups. A server typically has more processing power, memory, and storage capacity than a client device. References: CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 3: IT Infrastructure

NEW QUESTION 8

Which of the following tasks is typically performed during the identification phase of the troubleshooting methodology?

- A. QUESTION NO: users.
- B. Verify functionality.
- C. Divide and conquer.
- D. Implement the solution.

Answer: A

Explanation:

users is a task that is typically performed during the identification phase of the troubleshooting methodology. QUESTION NO: users involves gathering information from the users who are experiencing the problem or who have reported the problem. This can help identify the symptoms, scope, frequency, and impact of the problem. Verify functionality, divide and conquer, and implement the solution are tasks that are typically performed in other phases of the troubleshooting methodology. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 9: Troubleshooting Methodology, page 333.

NEW QUESTION 9

A database administrator wants to populate a database with large amounts of data from an external source. Which of the following actions should be used to get the database populated?

- A. EXPORT
- B. IMPORT
- C. SELECT
- D. ALTER

Answer: B

Explanation:

IMPORT is the action that should be used to populate a database with large amounts of data from an external source. IMPORT is a command or function that allows a database to read and load data from an external file or source into a table or structure within the database. IMPORT can help a database administrator to transfer or migrate data from one database to another or from a different format to a database format. IMPORT can also help a database administrator to backup

or restore data from a file or source. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 143.

NEW QUESTION 10

Which of the following BEST describes a technology that allows multiple users to create and edit reports at the same time?

- A. Text file on a shared drive
- B. Managed relational database
- C. Informational intranet page
- D. Locally installed productivity software

Answer: B

Explanation:

A managed relational database is a type of database that is hosted and maintained by a cloud service provider such as Microsoft Azure or Amazon Web Services. A relational database is a type of database that organizes data into tables that are related to each other by common fields or attributes. A managed relational database would be the best option for allowing multiple users to create and edit reports at the same time because it can handle concurrent user requests, provide high availability and scalability, and perform complex queries and operations on the data. A text file on a shared drive, an informational intranet page, and locally installed productivity software are not options that can allow multiple users to create and edit reports at the same time because they cannot handle concurrent user requests, provide high availability and scalability, or perform complex queries and operations on the data. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 197.

NEW QUESTION 10

A gaming console needs to allow for inbound connectivity on a home network to facilitate chat functions.

Which of the following devices is a user MOST likely to configure to allow this?

- A. Cable modem
- B. Wireless router
- C. Access point
- D. Network switch

Answer: B

Explanation:

A wireless router is a device that connects wireless devices to a wired network and allows them to communicate with each other and access the Internet. A wireless router also has firewall features that can block or allow inbound or outbound traffic based on rules or settings. A user can configure the wireless router to allow inbound connectivity on a home network for a gaming console by opening or forwarding ports that are used for chat functions. A cable modem, an access point, and a network switch are not devices that can be configured to allow inbound connectivity on a home network for a gaming console. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 6: Infrastructure Concepts, page 227.

NEW QUESTION 11

A UPS provides protection against:

- A. denial of service
- B. replay attack.
- C. power outages.
- D. wiretapping.

Answer: C

Explanation:

A UPS (uninterruptible power supply) provides protection against power outages by providing backup power to connected devices in case of a power failure. A UPS typically consists of a battery, an inverter, and a surge protector. A UPS can prevent data loss, hardware damage, or downtime caused by sudden loss of electricity. A UPS can also protect against power surges, spikes, or fluctuations that can harm electronic devices.

A denial of service (DoS) is a cyberattack that attempts to disrupt the normal functioning of a network or system by overwhelming it with traffic or requests. A UPS does not provide protection against DoS attacks, as they target the network layer, not the physical layer. A replay attack is a cyberattack that involves intercepting and retransmitting data to impersonate or deceive another party. A UPS does not provide protection against replay attacks, as they target the application layer, not the physical layer. Wiretapping is the act of secretly monitoring or recording the communication or data transmission of another party. A UPS does not provide protection against wiretapping, as it does not encrypt or secure the data.

NEW QUESTION 14

Which of the following best explains the reason for password expiration?

- A. To disable unused user IDs
- B. To invalidate any compromised passwords
- C. To discourage writing down passwords
- D. To enforce new password complexity rules

Answer: B

Explanation:

The best explanation for password expiration is to invalidate any compromised passwords. Password expiration is a security policy that requires users to change their passwords after a certain period of time, such as every 90 days. This reduces the risk of unauthorized access if an attacker obtains the user's password through phishing, hacking, or other means. If the user changes their password regularly, the old password becomes useless for the attacker. Password expiration does not necessarily disable unused user IDs, as the user may still be able to log in with their new password. Password expiration does not discourage writing down passwords, as some users may still do so to remember their new passwords. Password expiration does not enforce new password complexity rules, as those rules apply to any password change regardless of expiration. References: CompTIA IT Fundamentals (ITF+) Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals and Security Concepts, page 181

NEW QUESTION 15

A user browses to a website. Before the page opens, the user receives a message that the site is not secure. Which of the following caused this message?

- A. Certificate
- B. Proxy
- C. Script
- D. Malware

Answer: A

Explanation:

A website that is not secure means that the connection between the user's browser and the web server is not encrypted or authenticated. This can expose the user's data to interception, modification, or impersonation by attackers. One way to secure a website is to use HTTPS (Hypertext Transfer Protocol Secure), which is a protocol that encrypts and verifies the data exchanged between the browser and the server. HTTPS relies on certificates, which are digital documents that contain information about the identity and public key of the website owner. Certificates are issued by trusted authorities called certificate authorities (CAs), which verify the legitimacy of the website owner before issuing a certificate. When a user browses to a website that uses HTTPS, the browser checks the certificate to ensure that it is valid, signed by a CA, and matches the website's domain name. If any of these checks fail, the browser will display a warning message that the site is not secure, and advise the user not to proceed or enter any sensitive information.

NEW QUESTION 19

A regulation requires new applicants to provide a scan of their retinas in case of any future legal questions regarding who applied for the position. Which of the following concepts is this an example of?

- A. Non-repudiation
- B. Authentication
- C. Integrity
- D. Accounting

Answer: A

Explanation:

Non-repudiation is a security concept that refers to the ability to prove the origin and authenticity of an action or communication, such as an email or a document. Non-repudiation prevents someone from denying their involvement or responsibility for something they have done or sent. Non-repudiation can be achieved by using methods such as digital signatures, encryption, timestamps, or biometric data. For example, scanning the retinas of new applicants can provide non-repudiation in case of any future legal questions regarding who applied for the position⁸⁹. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 6: Security³; What is Non-Repudiation? - Definition from Techopedia¹⁰

NEW QUESTION 22

Which of the following storage types is MOST vulnerable to magnetic damage?

- A. Flash
- B. SSD
- C. Optical
- D. HDD

Answer: D

Explanation:

HDD (Hard Disk Drive) is a type of storage device that uses magnetic disks to store data. HDD is the most vulnerable to magnetic damage among the options given because magnetic fields can interfere with the read/write heads or the magnetic disks, causing data loss or corruption. Flash, SSD (Solid State Drive), and Optical are not types of storage devices that use magnetic disks to store data. Flash and SSD are types of storage devices that use flash memory chips to store data. Optical is a type of storage device that uses laser beams to read or write data on optical discs, such as CDs, DVDs, or Blu-ray discs. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 3: Computing Components, page 122.

NEW QUESTION 24

Which of the following are the basic computing operations?

- A. Input, process, output, and feedback
- B. Input, output, storage, and feedback
- C. Input, process, and output
- D. Input, process, output, and storage

Answer: D

Explanation:

Input, process, output, and storage are the basic computing operations that describe how a computer system works. Input is the data or instructions that are entered into the computer system by the user or another device. Process is the manipulation or transformation of the input data by the computer system according to a set of rules or algorithms. Output is the result or information that is displayed or sent by the computer system to the user or another device. Storage is the retention or preservation of the input, output, or intermediate data by the computer system for future use. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 28.

NEW QUESTION 25

Which of the following types of memory can retain its content after a system reboot?

- A. DDR
- B. DIMM
- C. RAM
- D. ROM

Answer: D

Explanation:

The type of memory that can retain its content after a system reboot is ROM. ROM stands for Read-Only Memory, which is a type of non-volatile memory that stores data permanently even when the power is turned off. ROM can only be read by the CPU, but not written or modified. ROM contains essential data and instructions that are needed for the system to boot up and operate, such as the BIOS (Basic Input/Output System) or the firmware. DDR is not the type of memory that can retain its content after a system reboot, but rather a type of RAM. RAM stands for Random Access Memory, which is a type of volatile memory that stores data temporarily while the computer is running. RAM allows fast access and modification of data by the CPU, but it loses its contents when the power is turned off. DDR stands for Double Data Rate, which is a technology that allows RAM to transfer data twice as fast as normal RAM. DDR has different generations, such as DDR2, DDR3, or DDR4, which have different speeds and capacities. DIMM is not the type of memory that can retain its content after a system reboot, but rather a type of module or package that contains RAM chips. DIMM stands for Dual In-line Memory Module, which is a circuit board that has RAM chips on both sides and pins on both edges. DIMM can be inserted into slots on the motherboard to increase the amount of RAM available for the system. DIMM has different types and sizes, such as SDRAM, DDR, DDR2, DDR3, or DDR4 DIMMs. RAM is not the type of memory that can retain its content after a system reboot, but rather the type of memory that loses its content when the power is turned off. RAM stands for Random Access Memory, which is a type of volatile memory that stores data temporarily while the computer is running. RAM allows fast access and modification of data by the CPU, but it loses its contents when the power is turned off. RAM can be packaged into modules or packages, such as DIMMs or SO-DIMMs. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 1: IT Fundamentals1

NEW QUESTION 27

Which of the following statements BEST describes binary?

- A. A notational system used to represent an “on” or “off” state
- B. A notational system used to represent media access control
- C. A notational system used to represent Internet protocol addressing
- D. A notational system used to represent a storage unit of measurement

Answer: A

Explanation:

Binary is a notational system used to represent an “on” or “off” state in digital devices or systems. Binary use only two symbols: 0 (off) and 1 (on). Binary is also known as base 2 notation, because each symbol represents a power of 2. Binary is the fundamental building block of all computer operations and data storage, as it can encode any type of information using sequences of bits (binary digits)1112. References
:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 2: Computing Basics3; What is Binary? - Definition from Techopedia

NEW QUESTION 29

A product advertising kiosk at a mall is set up using a thin client without a hard drive and is running a web application managed and updated through an internet connection. Which of the following application delivery methods is most likely being used for the kiosk?

- A. Local network-hosted
- B. Cloud-hosted
- C. Hybrid-installed
- D. Locally installed

Answer: B

Explanation:

The application delivery method that is most likely being used for the kiosk is cloud-hosted. Cloud-hosted is a type of application delivery method that involves running and accessing an application from a remote server or service over the internet. Cloud-hosted applications do not require installation or storage on the local device, but only a web browser or a client software to connect to the application. Cloud-hosted applications can provide benefits such as scalability, availability, security, and automatic updates. A product advertising kiosk at a mall that is set up using a thin client without a hard drive and is running a web application managed and updated through an internet connection is most likely using a cloud-hosted application delivery method, as it does not need any local resources or maintenance for the application. Local network-hosted is not the application delivery method that is most likely being used for the kiosk, but rather a type of application delivery method that involves running and accessing an application from a server or a device within the same local area network (LAN) as the client device. Local network-hosted applications require installation or storage on the server or device that hosts the application, but not on the client device. Local network-hosted applications can provide benefits such as speed, reliability, and control. A product advertising kiosk at a mall that is set up using a thin client without a hard drive and is running a web application managed and updated through an internet connection is not likely using a local network-hosted application delivery method, as it would need to be connected to a server or device within the same LAN as the kiosk. Hybrid-installed is not the application delivery method that is most likely being used for the kiosk, but rather a type of application delivery method that involves running and accessing an application from both a local device and a remote server or service over the internet. Hybrid-installed applications require partial installation or storage on the local device, as well as a web browser or a client software to connect to the remote part of the application. Hybrid-installed applications can provide benefits such as flexibility, functionality, and performance. A product advertising kiosk at a mall that is set up using a thin client without a hard drive and is running a web application managed and updated through an internet connection is not likely using a hybrid-installed application delivery method, as it would need some local resources for the application. Locally installed is not the application delivery method that is most likely being used for the kiosk, but rather a type of application delivery method that involves running and accessing an application from the local device only. Locally installed applications require full installation or storage on the local device, but do not need any web browser or client software to connect to the internet. Locally installed applications can provide benefits such as offline access, customization, and compatibility. A product advertising kiosk at a mall that is set up using a thin client without a hard drive and is running a web application managed and updated through an internet connection is not likely using a locally installed application delivery method, as it would need a hard drive or other storage device for the application. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 4: Operating System Fundamentals1

NEW QUESTION 32

Ann, the president of a company, has requested assistance with choosing the appropriate Internet connectivity for her home. The home is in a remote location and has no connectivity to existing infrastructure. Which of the following Internet service types should MOST likely be used?

- A. Fiber
- B. DSL
- C. Cable
- D. Satellite

Answer: D

Explanation:

Satellite would be the best choice for Internet service for a home in a remote location that has no connectivity to existing infrastructure. Satellite Internet service uses satellites in orbit to provide wireless Internet access to users who have a satellite dish installed at their location. Satellite Internet service can cover areas where other types of Internet service are not available or reliable, such as rural or remote locations. Satellite Internet service can offer high-speed broadband connections, but it may also have drawbacks such as high latency, weather interference, and data caps. References : The Official CompTIA IT Fundamentals (ITF+) Study Gui (FC0-U61), page 168.

NEW QUESTION 33

Which of the following describes something in a database that refers to the unique identifier in the parent table?

- A. Attribute
- B. Constraint
- C. Foreign key
- D. Schema

Answer: C

Explanation:

A foreign key is a column or a set of columns in a table that refers to the unique identifier (or primary key) in another table. A foreign key establishes a relationship between two tables and ensures referential integrity. For example, in a database that stores information about students and courses, the student table may have a column called student_id that is the primary key for each student record. The course table may have a column called student_id that is the foreign key that refers to the student_id in the student table. This way, the database can link each course record to the corresponding student record. References: CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals; What is RDBMS (Relational Database Management System) - Javatpoint; What is a Relational Database Management System? | Microsoft Azure

NEW QUESTION 34

Which of the following is the exact number of bytes in a gigabyte?

- A. 1,024 bytes
- B. 1,048,576 bytes
- C. 1,073,741,824 bytes
- D. 1,099,511,627,776 bytes

Answer: C

Explanation:

The exact number of bytes in a gigabyte is 1.073.741.824 bytes. A byte is a unit of digital information that consists of eight bits. A bit is a binary digit that can have one of two values: 0 or 1. A byte can store one character, such as a letter, a number, or a symbol. A gigabyte is a unit of digital information that consists of 1.073.741.824 bytes or 1.024 megabytes. A megabyte is a unit of digital information that consists of 1.048.576 bytes or 1.024 kilobytes. A kilobyte is a unit of digital information that consists of 1.024 bytes. These units are based on the binary system, which uses powers of two to represent values. However, there are also decimal units that use powers of ten to represent values, such as gigabyte (GB), megabyte (MB), and kilobyte (KB). These units are often used by storage devices and network services to measure capacity or speed. In this case, one gigabyte (GB) equals 1 billion bytes or 1.000 megabytes (MB). One megabyte (MB) equals 1 million bytes or 1.000 kilobytes (KB). One kilobyte (KB) equals 1 thousand bytes. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 2: IT Concepts and Terminology

NEW QUESTION 36

Which of the following computer components allows for communication over a computer network?

- A. RAM
- B. NIC
- C. CPU
- D. NAS

Answer: B

Explanation:

A NIC (network interface card) is the computer component that allows for communication over a computer network. A NIC is a hardware device that connects a computer to a network cable or a wireless access point. A NIC enables the computer to send and receive data packets over the network using protocols such as TCP/IP (Transmission Control Protocol/Internet Protocol). A NIC has a unique identifier called a MAC (media access control) address that distinguishes it from other devices on the network. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 169.

NEW QUESTION 37

A systems administrator wants to run a script at a certain time every day. Which of the following is the BEST way to achieve this?

- A. Perform process management.
- B. Perform task scheduling.
- C. Set the system date and time.
- D. Set a reminder to run the script.

Answer: B

Explanation:

Task scheduling is a function of an operating system that allows users to run a script or a program at a certain time or interval automatically. Task scheduling would be the best way for a systems administrator to run a script at a certain time every day without manual intervention. Perform process management, set the system date and time, and set a reminder to run the script are not options that would allow the systems administrator to run a script at a certain time every day automatically. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 3: Computing Components, page 128.

NEW QUESTION 40

A programmer needs to store output in a place that can be accessed as quickly as possible. The data does not need to remain persistent. Which of the following is the BEST option for storing the data?

- A. Flat file
- B. Memory
- C. Relational database
- D. Solid state drive

Answer: B

Explanation:

Memory is the component of a computer system that stores data temporarily for fast access by the processor. Memory does not need to remain persistent, which means it does not retain data when the power is turned off.

A programmer can use memory to store output in a place that can be accessed as quickly as possible by the processor. Memory is also known as RAM (random access memory). References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 36.

NEW QUESTION 41

Which of the following contains exactly four copper wires?

- A. RJ45
- B. VGA
- C. RJ11
- D. USB

Answer: C

Explanation:

RJ11 is a type of connector that is used for telephone lines. RJ11 has four copper wires that carry analog voice signals. RJ11 is smaller than RJ45, which is used for Ethernet cables. RJ11 is also different from VGA and USB, which are used for video and data transmission respectively. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 4, Section 4.2, Page 166.

NEW QUESTION 46

An employee's laptop does not connect to the Internet when it is used in a coffee shop. Which of the following is the MOST likely cause?

- A. Script blocker
- B. Proxy settings
- C. Private browsing
- D. Full browser cache

Answer: B

Explanation:

Proxy settings are the configuration options that determine how a computer or device connects to the Internet through a proxy server. A proxy server is an intermediary server that acts as a gateway between the computer or device and the Internet. Proxy servers can provide security, privacy, caching, filtering, or access control functions. Proxy settings can affect the Internet connectivity of a computer or device depending on the proxy server's availability, location, or rules. If an employee's laptop does not connect to the Internet when it is used in a coffee shop, the most likely cause is that the proxy settings are incorrect or incompatible with the coffee shop's network. The employee may need to disable or change the proxy settings to connect to the Internet through the coffee shop's network. Script blocker, private browsing, and full browser cache are not likely causes of Internet connectivity issues when using a laptop in a coffee shop. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 6: Infrastructure Concepts, page 234.

NEW QUESTION 48

A game developer is purchasing a computing device to develop a game and recognizes the game engine software will require a device with high-end specifications that can be upgraded. Which of the following devices would be BEST for the developer to buy?

- A. Laptop
- B. Server
- C. Game console
- D. Workstation

Answer: D

Explanation:

A workstation would be the best device for a game developer to buy if the game engine software requires high-end specifications and upgradability. A workstation is a computing device that is designed for professional or specialized applications that require high performance, reliability, and scalability. A workstation typically has more powerful components than a standard desktop computer, such as faster processors, larger memory, better graphics cards, and more storage options. A workstation can also be customized and upgraded to meet specific needs or preferences. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 26.

NEW QUESTION 51

Which of the following is a value that uniquely identifies a database record?

- A. Foreign key
- B. Public key
- C. Primary key
- D. Private key

Answer: C

Explanation:

A primary key is a value that uniquely identifies a database record or a row in a table. A primary key can be a single column or a combination of columns that have unique values for each record. A primary key ensures that each record can be distinguished from others and prevents duplicate data. For example, in a database that stores information about employees, the employee ID column can be used as a primary key for each employee record⁵⁶. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals³; What is Primary Key? - Definition from Techopedia⁷

NEW QUESTION 55

Which of the following is a reason why complex passwords are required?

- A. To encourage password variety
- B. To prevent someone from guessing them
- C. To make them harder to remember
- D. To reduce social engineering attacks

Answer: B

Explanation:

A managed relational database is a type of database that is hosted and maintained by a cloud service provider such as Microsoft Azure or Amazon Web Services. A relational database is a type of database that organizes data into tables that are related to each other by common fields or attributes. A managed relational database would be the best option for allowing multiple users to create and edit reports at the same time because it can handle concurrent user requests, provide high availability and scalability, and perform complex queries and operations on the data. A text file on a shared drive, an informational intranet page, and locally installed productivity software are not options that can allow multiple users to create and edit reports at the same time because they cannot handle concurrent user requests, provide high availability and scalability, or perform complex queries and operations on the data. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 197.

NEW QUESTION 59

A developer is writing a script to calculate a bank account balance within two decimal places. Which of the following data types should the developer select to store the balance?

- A. Boolean
- B. Integer
- C. Float
- D. Char

Answer: C

Explanation:

A float is a data type that can store decimal numbers, such as 3.14 or 0.01. This is suitable for calculating a bank account balance within two decimal places, as it can represent fractions of a dollar. A boolean is a data type that can only store true or false values, which is not useful for numerical calculations. An integer is a data type that can store whole numbers, such as 1 or 100, but not decimals. A char is a data type that can store a single character, such as 'a' or '9', but not multiple characters or decimals. References: CompTIA IT Fundamentals (ITF+) Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Software Development Concepts, page 1371

NEW QUESTION 61

The sales department needs to keep a customer list that contains names, contact information, and sales records. This list will need to be edited by multiple people at the same time. Which of the following applications should be used to create this list?

- A. Database software
- B. Word processing software
- C. Conferencing software
- D. Presentation software

Answer: A

Explanation:

Database software would be the best application to create a list that contains names, contact information, and sales records that can be edited by multiple people at the same time. Database software is an application that allows users to create, store, access, manipulate, and analyze data in an organized and structured way. Database software can store various types of data in tables, records, fields, or other structures. Database software can also support queries, reports, transactions, security, backup, and recovery functions. Database software can allow multiple users to edit the same data concurrently with proper permissions and controls. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 142.

NEW QUESTION 62

Joe, a user, finds out his password for a social media site has been compromised. Joe tells a friend that his email and banking accounts are probably also compromised. Which of the following has Joe MOST likely performed?

- A. Password reuse
- B. Snooping
- C. Social engineering
- D. Phishing

Answer: A

Explanation:

Password reuse is the practice of using the same password for multiple accounts or services. Password reuse is a bad security habit that can lead to compromise of multiple accounts if one of them is breached by an attacker. Joe has most likely performed password reuse if he thinks his email and banking accounts are also compromised after his password for a social media site was compromised. Joe should use different passwords for different accounts and change them regularly to prevent password reuse. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 208.

NEW QUESTION 65

Which of the following filesystems would a Linux computer MOST likely use?

- A. HFS
- B. NTFS
- C. FAT32
- D. ext4

Answer: D

Explanation:

ext4 is a type of filesystem that is commonly used by Linux operating systems. A filesystem is a method of organizing and storing data on a storage device such as a hard disk drive or a solid state drive. A filesystem determines how data is divided into files and folders, how much space is allocated for each file or folder, how data is accessed and modified, and how data is protected from errors or corruption. ext4 is an improved version of ext3, which was the default filesystem for many Linux distributions until ext4 was introduced. ext4 offers better performance, reliability, and scalability than ext3. HFS, NTFS, and FAT32 are not filesystems that would be most likely used by a Linux computer. HFS is a filesystem that was used by older versions of Mac OS X operating systems. NTFS is a filesystem that is used by Windows operating systems. FAT32 is a filesystem that is used by older versions of Windows operating systems or removable storage devices such as USB flash drives. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 3: Computing Components, page 123.

NEW QUESTION 70

An IP address is 32 bits long. If converted to bytes, it would be:

- A. 4 bytes
- B. 8 bytes
- C. 16 bytes
- D. 64 bytes

Answer: A

Explanation:

A byte is a unit of information that consists of eight bits. A bit is a binary digit that can have a value of either 0 or 1. An IP address is 32 bits long, which means it is composed of four groups of eight bits each. Therefore, if converted to bytes, an IP address would be four bytes long. For example, the IP address 192.168.1.1 in binary form is: 11000000.10101000.00000001.00000001

This IP address has four groups of eight bits each, which are equivalent to four bytes. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 6: Infrastructure Concepts, page 221.

NEW QUESTION 74

When following the troubleshooting methodology, which of the following should be performed last?

- A. Document findings.
- B. Establish a plan.
- C. Determine the cause.
- D. Verify functionality.

Answer: A

Explanation:

The troubleshooting methodology is a systematic process of identifying and resolving problems with computers or other devices. The troubleshooting methodology consists of six steps: identify the problem, establish a theory of probable cause, test the theory to determine cause, establish a plan of action to resolve the problem and implement the solution, verify full system functionality and if applicable implement preventive measures, document findings/actions/outcomes. The last step of the troubleshooting methodology is to document findings/actions/outcomes. This step involves recording what was done to solve the problem, what was learned from the process, what preventive measures were taken (if any), and any feedback from the customer or user. Documenting findings/actions/outcomes is important for several reasons: it helps keep track of what was done and why; it helps avoid repeating the same steps or mistakes in the future; it helps share knowledge and best practices with others; it helps improve customer satisfaction and trust; it helps comply with organizational policies or regulations

NEW QUESTION 79

Salespeople roam around a retail store conducting transactions. Which of the following computing devices would be most ideal for point-of-sale transactions?

- A. Workstation
- B. Laptop
- C. Cellphone
- D. Thin client

Answer: C

Explanation:

A cellphone is the most ideal computing device for point-of-sale transactions in a retail store where salespeople roam around. A cellphone is portable, wireless, and has features such as cameras, scanners, and touchscreens that can facilitate payment processing and customer interaction. A workstation is a desktop computer that is designed for high-performance tasks, but it is not portable or wireless. A laptop is a portable computer that can run on battery power, but it is not as convenient or compact as a cellphone. A thin client is a computer that relies on a server for most of its processing and storage, but it is not suitable for point-of-sale transactions without network connectivity. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 1: IT Fundamentals1

NEW QUESTION 83

A remote user, who is working from home, requires significant bandwidth to connect to the corporate systems. Which of the following types of Internet service connections would BEST meet the user's needs?

- A. T1 line

- B. Satellite
- C. Fiber optic
- D. DSL

Answer: C

Explanation:

Fiber optic is a type of Internet service connection that uses thin strands of glass or plastic to transmit data using light signals. Fiber optic offers high bandwidth, speed, and reliability compared to other types of Internet service connections. T1 line, satellite, and DSL are not types of Internet service connections that offer significant bandwidth for remote users. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 6: Infrastructure Concepts, page 229.

NEW QUESTION 88

Which of the following BEST explains the use of float over integer to store monetary values?

- A. It accepts negative values.
- B. It stores symbols
- C. It accommodates larger values.
- D. It supports decimals.

Answer: D

Explanation:

Float is a data type that can store decimal or fractional numbers, such as 3.14, 0.5, or -2.75. Float would be the best data type to use for storing monetary values because monetary values often involve decimals, such as \$1.99, 0.25, or -5.50. Integer is a data type that can only store whole numbers, such as 1, 0, or -2. Integer would not be suitable for storing monetary values that have decimals. The other options are not data types that can store numerical values. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Programming Concepts and Data Structures, page 146.

NEW QUESTION 89

Which of the following would work BEST stored as a flat file rather than stored in a database?

- A. Contact list
- B. Movie theater locations
- C. Directions to doctor's office
- D. Store inventory

Answer: C

Explanation:

Directions to doctor's office would work best stored as a flat file rather than stored in a database. A flat file is a simple text file that contains one record per line and has a fixed structure or format. A flat file is suitable for storing simple or static data that does not require frequent updates or complex queries. A database is a collection of organized data that can be accessed, manipulated, and updated using a database management system (DBMS). A database is suitable for storing complex or dynamic data that requires frequent updates or complex queries. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), pag 142-143.

NEW QUESTION 93

A user needs an interface that supports both video and data. Which of the following will meet this requirement?

- A. Thunderbolt
- B. VGA
- C. DVI
- D. FireWire

Answer: A

Explanation:

Thunderbolt is an interface that supports both video and data. Thunderbolt is a high-speed serial interface that can connect multiple devices to a computer using one cable. Thunderbolt can support both DisplayPort and PCI Express protocols, which means it can transfer both video and data signals simultaneously. Thunderbolt can also provide power to connected devices and support daisy-chaining up to six devices per port. Thunderbolt offers faster data transfer rates than USB or FireWire interfaces. VGA is an interface that supports only video. VGA stands for Video Graphics Array, which is an analog interface that can connect monitors to computers using 15-pin connectors. VGA can only carry video signals and does not support audio or data transfer. VGA also has lower resolution and quality than digital interfaces such as HDMI or DVI. DVI is an interface that supports only video as well. DVI stands for Digital Visual Interface, which is a digital interface that can connect monitors to computers using 24-pin connectors. DVI can carry either analog or digital video signals depending on the type of connector used (DVI-A for analog, DVI-D for digital, or DVI-I for both). DVI does not support audio or data transfer either. FireWire is an interface that supports only data.

NEW QUESTION 97

Given the following pseudocode:

```
For each apple in the basket, eat two oranges unless  
it is the last apple, then eat three oranges.
```

If there are seven apples in the basket, which of the following would be the number of oranges a person eats?

- A. 10
- B. 14
- C. 15
- D. 17

Answer: C

Explanation:

The number of oranges a person eats would be 15 given the input (userin) of “analyst” and the following pseudocode:

Pseudocode is a simplified version of programming language that uses plain English words and symbols to describe the logic and steps of an algorithm or a program. Pseudocode can be used to plan, design, or test a program before writing it in an actual programming language. To find the number of oranges a person eats given the input (userin) of “analyst”, we need to follow the pseudocode line by line and evaluate the expressions or statements based on the input value.

Line 1: Declare userin as string

This line declares userin as a string variable, which means it can store text or characters. Line 2: Declare oranges as integer

This line declares oranges as an integer variable, which means it can store whole numbers. Line 3: Declare apples as integer

This line declares apples as an integer variable, which means it can store whole numbers. Line 4: Set apples = 7

This line assigns the value of 7 to apples. Line 5: Set oranges = 10

This line assigns the value of 10 to oranges. Line 6: Input userin

This line asks for user input and assigns it to userin. Line 7: If userin = “analyst” then

This line checks if userin is equal to “analyst”. Since we are given that userin is “analyst”, this condition is true and we proceed to execute the next line.

Line 8: Set oranges = oranges + apples

This line adds the value of oranges and apples and assigns it back to oranges. Since oranges is 10 and apples is 7, this line sets oranges to 17.

Line 9: End if

This line marks the end of the if statement. Line 10: If userin = “manager” then

This line checks if userin is equal to “manager”. Since we are given that userin is “analyst”, this condition is false and we skip the next line.

Line 11: Set oranges = oranges - apples

This line subtracts the value of apples from oranges and assigns it back to oranges. Since this line is skipped, oranges remains 17.

Line 12: End if

This line marks the end of the if statement. Line 13: Set oranges = oranges - 2

This line subtracts 2 from oranges and assigns it back to oranges. Since oranges is 17, this line sets oranges to 15.

Line 14: Output oranges

This line displays the value of oranges, which is 15.

Therefore, the number of oranges a person eats would be 15 given the input (userin) of “analyst” and the following pseudocode. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Programming Concepts and Data Structures, page 142.

NEW QUESTION 102

A technician has verified full system functionality. Which of the following actions should the technician take next?

- A. Question the users.
- B. Determine if anything has changed.
- C. Document the findings.
- D. Gather Information.

Answer: C

Explanation:

Documenting the findings is the last step in the troubleshooting process, after verifying full system functionality. Documenting the findings helps to create a record of the problem and the solution, which can be useful for future reference or training purposes. Questioning the users, determining if anything has changed, and gathering information are steps that precede verifying full system functionality in the troubleshooting process. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 2: IT Concepts and Terminology1

NEW QUESTION 107

A company is concerned with ensuring its databases are highly available. Which of the following can be used to increase database availability?

- A. Backups
- B. Prioritization
- C. Indexes
- D. Failover

Answer: D

Explanation:

Failover is a technique that ensures high availability of databases by switching to a backup or standby server in case of a primary server failure. Failover can be automatic or manual, depending on the configuration. Failover can prevent data loss and downtime for critical applications that rely on databases. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 5, Section 5.3, Page 222.

NEW QUESTION 108

Which of the following operating systems do not require extensions on files to execute a program? (Select TWO).

- A. Windows 7
- B. Windows 8
- C. UNIX
- D. Windows Server 2012
- E. Android
- F. Linux

Answer: CF

Explanation:

UNIX and Linux are the examples of operating systems that do not require extensions on files to execute a program. UNIX and Linux are operating systems that are based on the same kernel and share many features and commands. UNIX and Linux do not rely on file extensions to determine the file type or function. Instead, they use file permissions and attributes to indicate whether a file is executable or not. File extensions are optional and mainly used for human readability or compatibility with other systems. References : The Offici CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 86.

NEW QUESTION 110

Which of the following describes the concept of a database record?

- A. A collection of rows, columns, and constraints
- B. A collection of fields about the same object
- C. A collection of schemas within the same database
- D. A collection of tables within different schemas

Answer: B

Explanation:

The concept of a database record is best described as a collection of fields about the same object. A database record is a row in a table that represents an instance of an entity, such as a customer, an order, a product, etc. A database record consists of one or more fields that store data about the attributes of the entity, such as name, address, phone number, quantity, price, etc. A database record can be uniquely identified by a primary key, which is a field or a combination of fields that do not repeat in the table. A collection of rows, columns, and constraints is not the concept of a database record, but rather the concept of a database table. A database table is a structure that organizes data into rows and columns. Each row represents a record, and each column represents a field. A database table can have constraints that define the rules and restrictions for the data in the table, such as primary keys, foreign keys, unique keys, check constraints, etc. A collection of schemas within the same database is not the concept of a database record, but rather the concept of a database instance. A database instance is a set of memory structures and processes that manage and access a database. A database instance can contain one or more schemas, which are collections of objects that belong to a user or an application in the database, such as tables, views, indexes, etc. A collection of tables within different schemas is not the concept of a database record, but rather the concept of a database relationship. A database relationship is a connection between two tables that share common data. A database relationship can be established by using foreign keys, which are fields that reference the primary keys of another table. A database relationship can be one-to-one, one-to-many, or many-to-many depending on how many records in each table are related to each other. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 6: Database Fundamentals

NEW QUESTION 112

A systems administrator is setting up an output device that supports both USB and network capability. Which of the following devices is the administrator most likely installing?

- A. Scanner
- B. Camera
- C. SSD
- D. Printer

Answer: D

Explanation:

The device that the administrator is most likely installing is a printer. A printer is an output device that supports both USB and network capability, meaning that it can be connected to a computer or a network using either a USB cable or a wireless or wired network connection. A printer can produce hard copies of documents, images, or other data on paper or other media. A scanner is an input device that supports both USB and network capability, meaning that it can be connected to a computer or a network using either a USB cable or a wireless or wired network connection. A scanner can capture images or text from paper or other media and convert them into digital data. A camera is an input device that supports both USB and network capability, meaning that it can be connected to a computer or a network using either a USB cable or a wireless or wired network connection. A camera can capture images or videos and store them as digital data. An SSD stands for Solid State Drive, which is a type of storage device that supports both USB and network capability, meaning that it can be connected to a computer or a network using either a USB cable or a wireless or wired network connection. An SSD uses flash memory chips to store data persistently even when the power is turned off. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 1: IT Fundamentals1

NEW QUESTION 114

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