



## CompTIA

### Exam Questions FC0-U61

CompTIA IT Fundamentals+ Certification Exam

### NEW QUESTION 1

A programmer needs an element that will automatically store customer orders consecutively by order number every time a new order is placed. Which of the following elements should be used?

- A. Vector
- B. Sequence
- C. Array
- D. Constant

**Answer:** B

#### Explanation:

A sequence is an element that will automatically store customer orders consecutively by order number every time a new order is placed. A sequence is a database object that generates sequential numbers according to a specified rule. A sequence can be used to create unique identifiers for records in a table, such as order numbers or customer IDs. A vector is an element that can store multiple values of the same data type in an ordered sequence, but it does not automatically generate sequential numbers. A vector is a data structure that can be used in programming languages such as C++ or Java. An array is an element that can store multiple values of the same data type in an indexed sequence, but it does not automatically generate sequential numbers. An array is a data structure that can be used in programming languages such as C or Python. A constant is an element that can store a single value of any data type that does not change during the execution of a program, but it does not automatically generate sequential numbers. A constant is a variable that can be used in programming languages such as C# or JavaScript. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 6: Database Fundamentals, Chapter 8: Software Development Concepts

### NEW QUESTION 2

Which of the following actions is the FINAL step in the standard troubleshooting methodology?

- A. Document the solution and cause.
- B. Create a new theory of cause.
- C. Research the problem online.
- D. Implement preventive measures.

**Answer:** A

#### Explanation:

The final step in the standard troubleshooting methodology is to document the solution and cause of the problem. This step involves recording the details of the problem, the steps taken to resolve it, the outcome of the solution, and any preventive measures implemented to avoid future occurrences. Documenting the solution and cause can help to create a knowledge base for future reference, improve communication among IT professionals, and facilitate continuous improvement<sup>12</sup>. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 7: Explain the Troubleshooting Methodology<sup>3</sup>; Troubleshooting Methodology | IT Support and Help Desk | CompTIA<sup>4</sup>

### NEW QUESTION 3

Which of the following BEST describes the physical location of the data in the database?

- A. Table
- B. Column
- C. RAM
- D. HDD

**Answer:** D

#### Explanation:

HDD (Hard Disk Drive) is a type of storage device that uses magnetic disks to store data permanently. The physical location of the data in the database is on the HDD of the server or computer that hosts the database. The data can be accessed by using logical structures such as tables, columns, rows, and queries. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 192.

### NEW QUESTION 4

For which of the following is a relational database management system MOST commonly used?

- A. Building flowcharts
- B. Storing information
- C. Generating reports
- D. Creating diagrams

**Answer:** B

#### Explanation:

A relational database management system (RDBMS) is most commonly used for storing information in a structured and organized way. A RDBMS stores data in tables, which consist of rows and columns. Each row represents a record or an entity, and each column represents an attribute or a property of the entity. A RDBMS allows users to create, update, delete, and query data using a standard language called SQL (Structured Query Language). A RDBMS also enforces rules and constraints to ensure data integrity and consistency<sup>3465</sup>.

References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals<sup>2</sup>; What is RDBMS (Relational Database Management System) - Javatpoint<sup>5</sup>; What is a Relational Database Management System? | Microsoft Azure

### NEW QUESTION 5

To establish a theory of probable cause, one technician investigates network issues in the server room while another technician troubleshoots the user's workstation. Which of the following troubleshooting methodologies is being performed?

- A. QUESTION NO: the obvious.
- B. Divide and conquer.
- C. Duplicate the problem
- D. Research the knowledge base.

**Answer:** B

**Explanation:**

Divide and conquer is a troubleshooting methodology that involves breaking down a complex problem into smaller and more manageable parts, and then testing each part to isolate the cause of the problem. QUESTION NO: the obvious, duplicate the problem, and research the knowledge base are not troubleshooting methodologies that involve dividing the problem into smaller parts. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 9: Troubleshooting Methodology, page 332.

**NEW QUESTION 6**

Within a database, which of the following would be the best access method to use to display a subset of a table?

- A. UPDATE
- B. DROP
- C. SELECT
- D. INSERT

**Answer:** C

**Explanation:**

The SELECT statement is used to query a database and retrieve a subset of data that matches the specified criteria. For example, SELECT \* FROM Customers WHERE City = 'London' will return all the records from the Customers table where the City column is equal to 'London'. The SELECT statement can also be used to join multiple tables, perform calculations, sort and group data, and apply filters and functions. The SELECT statement is one of the most commonly used SQL commands and is essential for manipulating and analyzing data in a database.

**NEW QUESTION 7**

Consider the following statements:

```
if userin = "commander"
    then clearance = "topsecret"
    else if userin = "analyst"
        then clearance = "restricted"
        else
            clearance = "normal"
```

Given the input (userin) of "analyst", to which of the following would the clearance variable be set?

- A. topsecret
- B. normal
- C. analyst
- D. restricted

**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 8**

An administrator grants permission for a user to access data in a database. Which of the following actions was performed?

- A. Data correlation
- B. Data manipulation
- C. Data gathering
- D. Data definition

**Answer:** D

**Explanation:**

Data definition is the process of creating, modifying, or deleting the structure and objects of a database, such as tables, fields, indexes, and views. Data definition is performed using data definition language (DDL), which is a subset of SQL commands. An administrator can use DDL to grant or revoke permissions for a user to access data in a database. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 144.

**NEW QUESTION 9**

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 table<sup>12</sup>. References: = CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals<sup>3</sup>; Constraints in Relational Database Model - Online Tutorials Library

**NEW QUESTION 10**

An application is hosted on a local network. Which of the following descriptions is correct?

- A. LAN access is required.
- B. The application exists locally.
- C. Files are saved in the cloud.
- D. Internet access is required.

**Answer:** A

**Explanation:**

LAN access is required for an application that is hosted on a local network. A local network, also known as a local area network (LAN), is a group of devices that are connected within a limited geographic area, such as a home, an office, or a school. A LAN allows the devices to communicate and share resources, such as files, printers, or applications. An application that is hosted on a local network means that the application is installed and running on one or more devices within the LAN, and can be accessed by other devices within the same LAN. However, to access the application, the device must be connected to the LAN, either by a wired or wireless connection. The application does not exist locally on the device that accesses it, unless it is also installed on that device. The application does not save files in the cloud, unless it has a feature that allows it to sync with a cloud service. The application does not require internet access, unless it needs to communicate with external servers or services outside the LAN. References: CompTIA IT Fundamentals (ITF+) Study Guide: Exam FC0-U61, Second Edition, Chapter 3: Infrastructure, pages 83-84

**NEW QUESTION 10**

All users have access to an application at a company. The data from the application is stored on a centralized device located on the network. Which of the following devices would MOST likely be used to store the data?

- A. Server
- B. Tape library
- C. External HDD
- D. Workstation

**Answer:** A

**Explanation:**

A server is a device that provides services and resources to other devices on a network. A server can store data from an application and allow multiple users to access it simultaneously. A server is different from a tape library, an external HDD, or a workstation, which are devices that store data locally or offline and do not provide network services. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 4, Section 4.1, Page 152.

**NEW QUESTION 15**

Which of the following is an example of an interpreted language?

- A. C++
- B. Java
- C. Python
- D. Go

**Answer:** C

**Explanation:**

Python is an example of an interpreted language, which is a type of programming language that does not need to be compiled before execution. Instead, an interpreter program translates and executes the source code line by line at run time. Interpreted languages are usually easier to write and debug, but slower to execute than compiled languages. C++ and Java are examples of compiled languages, which are types of programming languages that need to be translated into executable machine code by a compiler program before execution. Compiled languages are usually faster to execute but harder to write and debug than interpreted languages. Go is an example of a hybrid language, which is a type of programming language that combines features of both compiled and interpreted languages. Hybrid languages use an intermediate code that can be executed by a virtual machine or an interpreter at run time. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Programming Concepts and Data Structures, page 140.

**NEW QUESTION 19**

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<sup>3</sup>. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 6: Security<sup>2</sup>

#### NEW QUESTION 20

Joe, a developer, is writing a program in which he needs to store a number that changes over the duration of the program's run. Which of the following would Joe MOST likely use to accomplish this?

- A. Loop
- B. Variable
- C. Constant
- D. Function

**Answer: B**

#### Explanation:

A variable is a named memory location that can store a number or any other type of data that changes over the duration of the program's run. A variable can be assigned a value, modified, or used in calculations or operations. A variable is different from a constant, which is a fixed value that does not change. A variable is also different from a loop, which is a control structure that repeats a block of code until a condition is met. A variable is also different from a function, which is a named block of code that performs a specific task and can be reused<sup>12</sup>. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 4: Software Development<sup>3</sup>; What is Variable? - Definition from Techopedia

#### NEW QUESTION 24

A systems administrator wants to return results for a time range within a database. Which of the following commands should the administrator use?

- A. SELECT
- B. INSERT
- C. DELETE
- D. UPDATE

**Answer: A**

#### Explanation:

A SELECT command is a SQL (Structured Query Language) statement that is used to return results for a time range within a database. A SELECT command can specify the columns and rows to be retrieved from one or more tables based on certain criteria or conditions. A SELECT command can also use functions or operators to manipulate or filter the data. For example, a SELECT command can use the BETWEEN operator to specify a time range for a date column<sup>89</sup>. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals<sup>3</sup>; SQL SELECT Statement - W3Schools<sup>10</sup>

#### NEW QUESTION 26

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 30

Which of the following is an example of multifactor authentication?

- A. Password and passphrase
- B. Fingerprint and retina scan
- C. Hardware token and smartphone
- D. Smart card and PIN

**Answer: D**

#### Explanation:

Smart card and PIN are the examples of multifactor authentication. Multifactor authentication is a security method that requires two or more factors or pieces of evidence to verify the identity of a user or device. The factors are usually classified into three categories: something you know (such as a password or PIN), something you have (such as a smart card or token), or something you are (such as a fingerprint or retina scan). Multifactor authentication provides stronger security than single-factor authentication because it reduces the risk of compromise if one factor is lost or stolen. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 207.

#### NEW QUESTION 34

A database administrator finds that a table is not needed in a relational database. Which of the following commands is used to completely remove the table and its data?

- A. UPDATE
- B. DELETE

- C. ALTER
- D. DROP

**Answer:** D

**Explanation:**

DROP is the command that is used to completely remove a table and its data from a relational database. DROP is a SQL (Structured Query Language) statement that deletes the definition and contents of a database object, such as a table, index, or view. DROP cannot be undone, so it should be used with caution. For example, the statement DROP TABLE Customers; will delete the table named Customers and all its data from the database. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 14

**NEW QUESTION 38**

Which of the following programming concepts uses properties and attributes?

- A. Objects
- B. Functions
- C. Containers
- D. Identifiers

**Answer:** A

**Explanation:**

Objects are a programming concept that represent entities or concepts in the real world. Objects have properties and attributes that describe their characteristics and behavior. For example, a car object may have properties such as color, model, speed, and fuel, and attributes such as engine, wheels, doors, and seats. Objects can also have methods, which are actions that the object can perform or that can be performed on the object. For example, a car object may have methods such as start, stop, accelerate, and brake. Objects are used to organize data and functionality in a modular and reusable way.

**NEW QUESTION 39**

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 41**

A user is getting an error message when trying to go to a website. A technician asks the user a few questions to find out more about the issue. The technician opens a browser locally and browses to the same site as the user. Which of the following troubleshooting steps is the technician using by browsing to the same site?

- A. Establish a plan of action.
- B. Gather information
- C. Duplicate the problem.
- D. Find the root cause.

**Answer:** C

**Explanation:**

The troubleshooting methodology is a systematic approach to solving problems that involves several steps, such as identifying the problem, establishing a theory of probable cause, testing the theory, establishing a plan of action, implementing the solution, verifying functionality, and documenting the findings. One of the steps in identifying the problem is to duplicate the problem, which means to reproduce the same error or issue that the user is experiencing. This can help the technician to verify the symptoms, narrow down the scope, and eliminate possible causes. References: CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 7: Explain the Troubleshooting Methodology; Troubleshooting Methodology | IT Support and Help Desk | CompTIA

**NEW QUESTION 43**

Which of the following would be the easiest component to upgrade on a laptop that is experiencing slow performance?

- A. Motherboard
- B. GPU
- C. RAM
- D. CPU

**Answer:** C

**Explanation:**

The easiest component to upgrade on a laptop that is experiencing slow performance is 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. Upgrading RAM can improve the performance of a laptop by increasing the amount of data that can be stored and processed at the same time,

reducing the need for swapping or paging to the hard disk. Upgrading RAM on a laptop is usually easy, as it only requires opening a small panel on the back or side of the laptop and inserting or replacing the RAM modules into the slots. The motherboard is not the easiest component to upgrade on a laptop that is experiencing slow performance, but rather one of the most difficult components to upgrade. The motherboard is the main circuit board of a computer that connects and controls all the other components, such as the CPU, RAM, GPU, etc. Upgrading the motherboard can improve the performance of a laptop by supporting newer or faster components, but it is also very complex, costly, and risky. Upgrading the motherboard on a laptop may require replacing or reconfiguring many other components, as well as ensuring compatibility and stability with the operating system and drivers. The GPU is not the easiest component to upgrade on a laptop that is experiencing slow performance, but rather one of the most difficult components to upgrade. The GPU stands for Graphics Processing Unit, which is a specialized component of a computer that handles graphics and image processing. Upgrading the GPU can improve the performance of a laptop by increasing the speed and quality of rendering graphics, especially for gaming or video editing applications. However, upgrading the GPU on a laptop is usually very hard or impossible, as most laptops have integrated GPUs that are soldered to the motherboard or CPU and cannot be replaced or upgraded. The CPU is not the easiest component to upgrade on a laptop that is experiencing slow performance, but rather one of the most difficult components to upgrade. The CPU stands for Central Processing Unit, which is the main component of a computer that executes instructions and performs calculations. Upgrading the CPU can improve the performance of a laptop by increasing the speed and efficiency of processing data, especially for multitasking or complex applications. However, upgrading the CPU on a laptop is usually very hard or impossible, as most laptops have integrated CPUs that are soldered to the motherboard and cannot be replaced or upgraded. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 1: IT Fundamentals

#### NEW QUESTION 47

Which of the following would be used to send messages using the SMTP protocol?

- A. Document sharing software
- B. Instant messaging software
- C. Conferencing software
- D. Email software

**Answer:** D

#### Explanation:

Email software would be used to send messages using the SMTP protocol. SMTP stands for Simple Mail Transfer Protocol, which is a network protocol that enables the transmission of email messages from a client to a server or from one server to another. Email software is an application that allows users to compose, send, receive, and manage email messages using SMTP or other protocols, such as POP3 or IMAP. Examples of email software include Microsoft Outlook, Gmail, Yahoo Mail, etc. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 166.

#### NEW QUESTION 51

Which of the following business continuity concepts is the best example of fault tolerance?

- A. Data restoration
- B. Redundant power
- C. Disaster recovery
- D. Restoring access

**Answer:** B

#### Explanation:

Redundant power is the best example of fault tolerance among the given business continuity concepts. Fault tolerance refers to the ability of a system to continue functioning despite failures or errors in some of its components. Redundant power provides backup sources of electricity in case of power outages or surges, ensuring uninterrupted operation of critical systems. Data restoration refers to the process of recovering lost or corrupted data from backups or other sources. Disaster recovery refers to the plan and procedures for restoring normal business operations after a major disruption, such as a natural disaster or a cyberattack. Restoring access refers to the process of granting users the ability to use systems or resources that were previously unavailable or inaccessible. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 7: Security Concepts1

#### NEW QUESTION 53

A desktop administrator just connected a printer to a workstation, but the workstation does not recognize the printer. Which of the following does the workstation MOST likely need for the printer to function?

- A. Permission
- B. Ink cartridge
- C. USB cable
- D. Driver

**Answer:** D

#### Explanation:

A driver is a software component that enables a device, such as a printer, to communicate with the operating system of a computer. Without a proper driver, the workstation will not be able to recognize or use the printer. Therefore, the workstation most likely needs a driver for the printer to function. The other options are not relevant to the problem of device recognition.

#### NEW QUESTION 58

Which of the following should have the HIGHEST expectation of privacy?

- A. A picture posted to a social media website
- B. A presentation saved to a corporate file server
- C. A locally stored word processing document
- D. A spreadsheet emailed to a business client

**Answer:** C

#### Explanation:

A locally stored word processing document would have the highest expectation of privacy among the given options. Privacy is the right or ability of individuals or groups to control or limit the access or disclosure of their personal information by others. A locally stored word processing document is a file that contains text,

images, or other data that is created and saved on a device's internal storage, such as a hard drive or SSD. A locally stored word processing document can have a higher level of privacy than a file that is shared, uploaded, or transmitted over the Internet or a network, because it is less exposed to potential threats or breaches. However, a locally stored word processing document may still require additional security measures, such as encryption, password protection, or backup, to ensure its privacy and integrity. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 205.

#### NEW QUESTION 63

Which of the following authorization techniques is used to assign permissions and authorize a user based on job title or function?

- A. Rule-based access control
- B. Mandatory access control
- C. Role-based access control
- D. Discretionary access control

**Answer:** C

#### Explanation:

Role-based access control is the authorization technique that is used to assign permissions and authorize a user based on job title or function. Role-based access control is a security method that defines roles for users or groups and assigns permissions for each role based on their responsibilities or tasks. Role-based access control simplifies the management of user access rights by allowing administrators to grant or revoke permissions based on roles rather than individual users. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 207.

#### NEW QUESTION 66

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 70

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 75

Which of the following is an advantage of installing an application to the cloud?

- A. Data is not stored locally.
- B. Support is not required.
- C. Service is not required.
- D. Internet access is not required.

**Answer:** A

#### Explanation:

An advantage of installing an application to the cloud is that data is not stored locally on the user's device or computer. This means that data can be accessed from anywhere with an internet connection, without taking up space on the device or computer. Data stored in the cloud can also be more secure and reliable than data stored locally, as it can be protected by encryption, backup, and redundancy measures provided by the cloud service provider<sup>1112</sup>. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals<sup>3</sup>; What are Cloud Applications? - Definition from Techopedia<sup>13</sup>

#### NEW QUESTION 76

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 79**

A user is selecting software to use to prepare handouts for a presentation. The user would like the information to be easy to format and printer friendly. Which of the following software types should the user select?

- A. Word processing
- B. Spreadsheet
- C. Text editor
- D. Visual diagramming

**Answer:** A

**Explanation:**

The software type that the user should select to prepare handouts for a presentation that are easy to format and printer friendly is word processing. Word processing is a type of software that allows users to create, edit, format, and print text documents, such as letters, reports, resumes, etc. Word processing software provides features such as fonts, styles, margins, alignment, bullets, numbering, tables, images, etc., that enable users to customize the appearance and layout of their documents. Word processing software also provides features such as spell check, grammar check, word count, etc., that enable users to improve the quality and accuracy of their documents. Word processing software can also support various file formats and printing options that enable users to save and print their documents easily and conveniently. Examples of word processing software include Microsoft Word, Google Docs, LibreOffice Writer, etc. Spreadsheet is not the software type that the user should select to prepare handouts for a presentation that are easy to format and printer friendly, but rather a type of software that allows users to create, edit, format, and print numerical data in rows and columns, such as budgets, invoices, charts, etc. Spreadsheet software provides features such as formulas, functions, graphs, pivot tables, etc., that enable users to perform calculations, analysis, or visualization on their data. Spreadsheet software can also support various file formats and printing options that enable users to save and print their data easily and conveniently. Examples of spreadsheet software include Microsoft Excel, Google Sheets, LibreOffice Calc, etc. Text editor is not the software type that the user should select to prepare handouts for a presentation that are easy to format and printer friendly, but rather a type of software that allows users to create, edit, or view plain text files, such as code, scripts, notes, etc. Text editor software provides features such as syntax highlighting, search and replace, indentation, etc., that enable users to manipulate text easily and efficiently. Text editor software does not provide features such as fonts, styles, images, etc., that enable users to customize the appearance or layout of their documents. Text editor software can also support various file formats but not printing options that enable users to save but not print their files easily and conveniently. Examples of text editor software include Notepad++, Sublime Text, Vim, etc.

**NEW QUESTION 80**

Employee information is stored in a database. Which of the following BEST describes where all of an employee’s information is stored?

- A. Record
- B. Report
- C. Column
- D. Procedure

**Answer:** A

**Explanation:**

A record is a collection of related fields or attributes that store information about a specific entity or object in a database. For example, an employee record would store information such as name, ID, department, salary, etc. A record would be the best description of where all of an employee’s information is stored in a database. A report is a formatted presentation of data from a database, not a storage unit. A column is a vertical arrangement of fields or attributes that store the same type of information for different records, not all of an employee’s information. A procedure is a set of instructions or commands that perform a specific task on a database, not a storage unit. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 193.

**NEW QUESTION 82**

A company’s team members have both old and new laptops. Which of the following connectors should be available in the conference room to ensure everyone can use the conference room projectors? (Choose two.)

- A. USB
- B. HDMI
- C. FireWire
- D. VGA
- E. Bluetooth
- F. RJ45

**Answer:** BD

**Explanation:**

HDMI and VGA are the connectors that should be available in the conference room to ensure everyone can use the conference room projectors. HDMI and VGA are types of video connectors that are used to connect a video source, such as a laptop, to a video output, such as a projector. HDMI stands for High-Definition Multimedia Interface, which is a digital connector that can transmit high-quality video and audio signals over a single cable. VGA stands for Video Graphics Array, which is an analog connector that can transmit standard-definition video signals over a 15-pin cable. HDMI and VGA are common video connectors that are found on old and new laptops, respectively. Having both HDMI and VGA connectors in the conference room can ensure compatibility and connectivity for different laptops and projectors. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 40.

**NEW QUESTION 86**

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 90**

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 94**

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 record34. References:= CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals2; What is RDBMS (Relational Database Management System) - Javatpoint5; What is a Relational Database Management System? | Microsoft Azure6

**NEW QUESTION 95**

Malware infections are being caused by websites. Which of the following settings will help prevent infections caused by Internet browsing?

- A. Turn on private browsing
- B. Delete browsing history on program close.
- C. Notify when downloads are complete.
- D. Configure prompting before downloading content.

**Answer: D**

**Explanation:**

Configuring prompting before downloading content will help prevent infections caused by Internet browsing. Prompting before downloading content is a browser setting that asks the user for confirmation or permission before downloading any file or program from a website. This setting can help prevent malware infections by allowing the user to check the source, type, and size of the file or program before downloading it. Prompting before downloading content can also help the user avoid unwanted or unnecessary downloads that may consume bandwidth or storage space. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 202.

**NEW QUESTION 98**

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 101**

Which of the following allows wireless devices to communicate to a wired network?

- A. Modem
- B. Switch
- C. Firewall
- D. Access point

**Answer: D**

**Explanation:**

An access point is a device that allows wireless devices to communicate to a wired network. An access point acts as a bridge between the wireless and wired networks, converting radio signals from wireless devices into data packets that can be transmitted over the network cable. An access point can also extend the range and coverage of a wireless network. References: CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 4: Networking Concepts

**NEW QUESTION 105**

A company has installed an application that only requires a workstation to function. Which of the following architecture types is this application using?

- A. One-tier
- B. Two-tier
- C. Three-tier
- D. n-tier

**Answer: A**

**Explanation:**

One-tier architecture is a type of architecture that uses only one layer or tier for an application or system. In one-tier architecture, the application logic, data, and user interface are all contained within the same layer or tier. One-tier architecture would be the best description of a technology that allows an application to run on a workstation without requiring any other components or layers. Two-tier, three-tier, and n-tier architectures are types of architectures that use more than one layer or tier for an application or system. In two-tier architecture, the application logic and data are separated into two layers or tiers. In three-tier architecture, the application logic, data, and user interface are separated into three layers or tiers. In n-tier architecture, the application logic, data, and user interface are separated into multiple layers or tiers. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 198.

**NEW QUESTION 107**

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 110**

A technician replaces the video card in a user's PC. The user reports the resolution on the display seems very low, but the operating system will not let the user adjust it any higher. Which of the following steps would MOST likely fix this problem?

- A. Replace the user's display.
- B. Update the PC's operating system.
- C. Replace the video cable.
- D. Install new video drivers.

**Answer:** D

**Explanation:**

Video drivers are software programs that enable the communication between the video card and the operating system. Video drivers also provide the functionality and settings for adjusting the resolution, color depth, refresh rate, and other display properties. If the video drivers are outdated, corrupted, or incompatible with the new video card, the resolution on the display may be low or incorrect. Installing new video drivers that match the model and specifications of the new video card can fix this problem. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 3, Section 3.3, Page 124.

**NEW QUESTION 114**

A technician is having trouble connecting multiple users' laptops to the internet wirelessly. The users are on the west side of the building, which is hardwired. Which of the following should the technician do to resolve this issue quickly?

- A. Add a switch and hardwire the users' laptops.
- B. Add a network router.
- C. Replace the users' laptops with desktop computers.
- D. Add an access point for the users.

**Answer:** D

**Explanation:**

The best solution for the technician to resolve the issue quickly is to add an access point for the users. An access point is a device that provides wireless connectivity to the network. An access point can be connected to a wired network and extend its coverage to wireless devices, such as laptops, smartphones, or tablets. By adding an access point on the west side of the building, the technician can enable the users' laptops to connect to the internet wirelessly without changing their hardware or software settings. Adding a switch and hardwiring the users' laptops is not a quick solution, as it would require installing cables and configuring the network settings on each laptop. Adding a network router is not necessary, as a router is a device that connects multiple networks and routes traffic between them. A router does not provide wireless connectivity by itself, unless it has a built-in access point. Replacing the users' laptops with desktop computers is not a feasible solution, as it would incur high costs and inconvenience for the users. References: CompTIA IT Fundamentals (ITF+) Study Guide: Exam FC0-U61, Second Edition, Chapter 3: Infrastructure, pages 90-91

**NEW QUESTION 115**

Which of the following does a NoSQL database use to organize data?

- A. Primary keys
- B. Schemas
- C. Keys/values
- D. Tables

**Answer:** C

**Explanation:**

A NoSQL database is a type of database that does not use tables, rows, and columns to organize data. Instead, it uses keys and values to store data in a flexible and scalable way. A key is a unique identifier for a piece of data, and a value is the data itself. For example:

```
{ "name": "Alice", "age": 25, "city": "New York" }
```

In this example, name, age, and city are keys, and Alice, 25, and New York are values.

References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 196.

**NEW QUESTION 117**

Which of the following is a wireless communication that requires devices to be within 6in of each other to transfer information?

- A. Infrared
- B. NFC
- C. Bluetooth
- D. WiFi

**Answer:** B

**Explanation:**

NFC stands for near field communication, which is a wireless communication technology that allows devices to exchange data or perform transactions when they are within a few centimeters of each other. NFC uses radio frequency identification (RFID) to create a short-range wireless connection. NFC is commonly used for contactless payments, smart cards, and digital wallets. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 174.

**NEW QUESTION 120**

Which of the following software license models allows a developer to modify the original code and release its own version of the application?

- A. Proprietary software
- B. Commercial software
- C. Open-source software
- D. Cross-platform software

**Answer:** C

**Explanation:**

Open source software is software that allows anyone to access, modify, and distribute its source code, which is the human-readable instructions that make up the

software. Open source software encourages collaboration and innovation among developers and users. Examples of open source software include Linux, Firefox, and WordPress. Other types of software license models, such as proprietary and commercial software, restrict the access and modification of the source code. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 122.

#### NEW QUESTION 121

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 126

The computer language that is closest to machine code is:

- A. query language
- B. scripting language
- C. markup language
- D. assembly language

**Answer: D**

#### Explanation:

Assembly language is a low-level programming language that uses mnemonics or symbolic names to represent machine code instructions. Machine code is the binary code that is directly executed by the processor. Assembly language is the closest to machine code among the options given because it has a one-to-one correspondence with machine code instructions. Query language, scripting language, and markup language are not programming languages that are close to machine code because they use higher-level syntax or commands that need to be translated or interpreted by other programs before execution. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Programming Concepts and Data Structures, page 139.

#### NEW QUESTION 128

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 132

Which of the following database concepts would MOST likely use a CSV file?

- A. Data querying
- B. Data reports
- C. Data importing
- D. Data persistence

**Answer: C**

#### Explanation:

A CSV file is a comma-separated values file that stores data in a tabular format. A CSV file can be used to import data from one database to another, or from other sources such as spreadsheets, text files, or web pages. Data importing is the process of transferring data between different systems or formats. References: = CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 5: Database Fundamentals 2

#### NEW QUESTION 136

Which of the following is a compiled language?

- A. Perl
- B. JScript
- C. Java
- D. PowerShell

**Answer: C**

**Explanation:**

A compiled language is a programming language that requires its source code to be converted into machine code before it can be executed by the CPU. A compiled language uses a compiler, which is a program that translates the source code into an executable file that contains machine code. A compiled language typically runs faster and more efficiently than an interpreted language, which does not need to be compiled before execution. Java is an example of a compiled language that can run on different platforms using the Java Virtual Machine (JVM), which interprets the machine code for the specific hardware. References: CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 4: Software Development; What is Compiled Language? - Definition from Techopedia

**NEW QUESTION 138**

A business would like to create an employee portal that employees will have access to when they are at work. The employees will not be able to connect to the portal from home without a VPN connection. Which of the following types of application does this describe?

- A. Local application
- B. Intranet application
- C. Extranet application
- D. Internet application

**Answer: B**

**Explanation:**

An intranet application is a type of application that is hosted on a private network and can only be accessed by authorized users within an organization. An intranet application would best describe an employee portal that employees can access when they are at work, but not from home without a VPN connection. A VPN (Virtual Private Network) is a technology that creates a secure and encrypted tunnel between a client device and a remote server over the Internet. A VPN can allow employees to access the intranet application from home by connecting to the private network of the organization. Local application, extranet application, and Internet application are not types of applications that describe an employee portal that employees can access when they are at work, but not from home without a VPN connection. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 5: Database Fundamentals, page 199.

**NEW QUESTION 143**

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 148**

Which of the following is an advantage of a flat file?

- A. Variety of data
- B. Scalability
- C. Portability
- D. Multiple concurrent users

**Answer: C**

**Explanation:**

The advantage of a flat file is portability. Portability is the ability of a file or a system to be easily transferred or used on different platforms or devices. A flat file is a type of file that stores data in plain text format with fixed fields and records. A flat file can be easily transferred or used on different platforms or devices, as it does not require any special software or hardware to read or write the data. A flat file can also be easily imported or exported by various applications or databases. A flat file does not have a variety of data, as it only stores data of one type or entity, such as customers, products, or orders. A flat file does not support relationships, queries, or calculations on the data. A flat file does not have scalability, as it has limitations on the size and complexity of the data that it can store. A flat file can become large, slow, or redundant as more data is added. A flat file does not support multiple concurrent users, as it does not have any locking or transaction mechanisms to prevent data conflicts or errors. A flat file can only be accessed by one user at a time, or by multiple users in read-only mode. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 6: Database Fundamentals

**NEW QUESTION 149**

Which of the following is a logical structure for storing files?

- A. Folder
- B. Extension
- C. Permissions
- D. Shortcut

**Answer: A**

**Explanation:**

A folder is a logical structure for storing files on a storage device such as a hard disk drive or a solid state drive. A folder can contain files or other folders within it. A folder can help users to organize, group, or categorize files based on their name, type, purpose, etc. Extension, permissions, and shortcut are not logical structures for storing files on a storage device. Extension is a suffix or identifier that indicates the format or type of a file, such as .txt, .docx, .jpg, etc. Permissions are rules or settings that determine who can access or modify a file or a folder on a storage device. Shortcut is an icon or link that points to the location of a file or a folder on a storage device. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 3: Computing Components, page 124.

**NEW QUESTION 152**

Which of the following terms best describes the outcome of a text message that is encrypted from its original form?

- A. Cipher
- B. Vector
- C. Plain
- D. Algorithm

**Answer: A**

**Explanation:**

The outcome of a text message that is encrypted from its original form is best described as a cipher. A cipher is a text message that has been transformed into an unreadable or unintelligible form by using an encryption algorithm and a key. Encryption is the process of converting plain text into cipher text to protect the confidentiality, integrity, and authenticity of the message. A vector is not a term used in encryption, but it may refer to a data structure that can store multiple values of the same data type in an ordered sequence. Plain is not a term used in encryption, but it may refer to the original or unencrypted form of a text message. An algorithm is not the outcome of encryption, but it is the method or procedure that is used to perform encryption or decryption. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 7: Security Concepts1

**NEW QUESTION 154**

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 159**

For a disaster recovery exercise, a company wants to ensure customer data is recovered before operational data. This is an example of:

- A. redundancy.
- B. replication.
- C. prioritization.
- D. fault tolerance.

**Answer: C**

**Explanation:**

Prioritization is the example of a disaster recovery exercise that involves ensuring customer data is recovered before operational data. Prioritization is the process of ranking or ordering the importance or urgency of tasks, goals, or resources. In disaster recovery, prioritization helps to determine which data, systems, or functions should be restored first based on their criticality or impact on the business continuity. For example, a company may prioritize customer data over operational data because customer data is more valuable or essential for the business operations. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 200.

**NEW QUESTION 162**

A company executive wants to view company training videos from a DVD. Which of the following components would accomplish this task?

- A. Optical drive
- B. Hard disk drive
- C. Solid state drive
- D. Flash drive

**Answer: A**

**Explanation:**

An optical drive is a component that can accomplish the task of viewing company training videos from a DVD. An optical drive is a device that can read and write data from optical discs, such as CDs, DVDs, or Blu-ray discs. An optical drive uses a laser beam to access the data stored on the disc. An optical drive can play video or audio files from optical discs, as well as install software or store data.  
A hard disk drive (HDD) is a component that can store large amounts of data on magnetic platters, but it cannot read or write data from optical discs. A solid state drive (SSD) is a component that can store data on flash memory chips, but it cannot read or write data from optical discs. A flash drive is a component that can store data on flash memory chips and connect to a USB port, but it cannot read or write data from optical discs.

#### NEW QUESTION 167

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 168

Which of the following would be BEST to keep the data on a laptop safe if the laptop is lost or stolen?

- A. Host-based firewall
- B. Strong administrator password
- C. Anti-malware software
- D. Full disk encryption

**Answer:** D

#### Explanation:

Full disk encryption would be the best way to keep the data on a laptop safe if the laptop is lost or stolen. Full disk encryption is a security technique that encrypts all the data on a hard drive, including the operating system, applications, and files. Full disk encryption prevents unauthorized access to the data without the correct password or key. Full disk encryption can protect the data on a laptop even if the laptop is physically removed or tampered with. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 203.

#### NEW QUESTION 169

Which of the following BEST describes the practice of providing user credentials when logging onto the network?

- A. Output
- B. Storage
- C. Input
- D. Processing

**Answer:** C

#### Explanation:

Providing user credentials when logging onto the network is an example of input, which is the process of entering data or commands into a computer system. Input can be done through various devices, such as keyboards, mice, scanners, cameras, microphones, or biometric scanners. User credentials are a form of input that identify and authenticate the user to the network and grant them access to resources1. References := CompTIA IT Fundamentals (ITF+) Study Guide, 2nd Edition, Chapter 2: Computing Basics2

#### NEW QUESTION 171

When developing a game, a developer creates a boss object that has the ability to jump. Which of the following programming concepts does jump represent?

- A. Method
- B. Object
- C. Property
- D. Attribute

**Answer:** A

#### Explanation:

A method is a programming concept that represents a function or a procedure that performs a specific task or action on an object. An object is a programming concept that represents an instance of a class or a data type that has properties and methods. A method would best describe the ability to jump for a boss object in game development because it is an action that the boss object can perform. Property, object, and attribute are not programming concepts that represent the ability to jump for a boss object in game development. Property is a programming concept that represents a characteristic or a feature of an object, such as color, size, or name. Object is a programming concept that represents an instance of a class or a data type that has properties and methods. Attribute is another term for property in some programming languages. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Programming Concepts and Data Structures, page 143.

#### NEW QUESTION 173

A technician is troubleshooting a problem. The technician tests the theory and determines the theory is confirmed. Which of the following should be the technician's NEXT step?

- A. Implement the solution.
- B. Document lessons learned.
- C. Establish a plan of action.
- D. Verify full system functionality.

**Answer:**

C

**Explanation:**

The technician's next step after testing the theory and determining the theory is confirmed is to establish a plan of action to resolve the problem and identify potential effects. This step involves preparing a specific method to implement the solution and considering how the solution might affect other components or users. The technician should also test the plan in an isolated environment before applying it to the actual system. Implementing the solution is not the next step after testing the theory and determining the theory is confirmed, as it requires establishing a plan of action first. Documenting lessons learned is not the next step after testing the theory and determining the theory is confirmed, as it comes after verifying full system functionality and implementing preventive measures. Verifying full system functionality is not the next step after testing the theory and determining the theory is confirmed, as it comes after implementing the solution.

**NEW QUESTION 175**

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 178**

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 181**

Which of the following is primarily a confidentiality concern?

- A. Eavesdropping
- B. Impersonating
- C. Destructing
- D. Altering

**Answer: A**

**Explanation:**

Eavesdropping is an electronic attack where digital communications are intercepted by an individual whom they are not intended<sup>1</sup>. This is a confidentiality concern because it violates the principle of limiting access to information to authorized people only. Confidentiality is a set of rules that limits access to information<sup>1</sup>. Eavesdropping can compromise the secrecy of the information and expose sensitive data to unauthorized parties. References:

➤ Confidentiality, Integrity & Availability Concerns | CompTIA IT Fundamentals FC0-U61 | 6.1

**NEW QUESTION 182**

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 185**

Concerned with vulnerabilities on a home network, an administrator replaces the wireless router with a recently released new device. After configuring the new device utilizing the old SSID and key, some light switches are no longer communicating. Which of the following is the MOST likely cause?

- A. The light switches do not support WPA2.
- B. The router is operating on a different channel.
- C. The key does not meet password complexity requirements.
- D. The SSID is not being broadcast.

**Answer: A**

**Explanation:**

WPA2 (WiFi Protected Access II) is a WiFi security option that uses encryption and authentication to protect the wireless network from unauthorized access or eavesdropping. WPA2 is the most secure and recommended WiFi security option among the options given. If some light switches are no longer communicating after replacing the wireless router with a new device that uses WPA2, the most likely cause is that the light switches do not support WPA2. The light switches may need to be updated or replaced to be compatible with WPA2. The router operating on a different channel, the key not meeting password complexity requirements, and the SSID not being broadcast are not likely causes of the light switches not communicating after replacing the wireless router with a new device that uses WPA2. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 8: Security Concepts, page 311.

**NEW QUESTION 190**

Which of the following WiFi security options would create the MOST need for a VPN connection on the client device?

- A. Open
- B. WEP
- C. WPA
- D. WPA2

**Answer: A**

**Explanation:**

Open is a WiFi security option that does not use any encryption or authentication to protect the wireless network from unauthorized access or eavesdropping. Open would create the most need for a VPN connection on the client device because VPN (Virtual Private Network) is a technology that creates a secure and encrypted tunnel between the client device and a remote server over the Internet. VPN would provide an additional layer of security and privacy for the wireless communication that is not provided by the open WiFi network. WEP (Wired Equivalent Privacy), WPA (WiFi Protected Access), and WPA2 (WiFi Protected Access II) are WiFi security options that use encryption and authentication to protect the wireless network from unauthorized access or eavesdropping. WEP, WPA, and WPA2 would create less need for a VPN connection on the client device than open because they already provide some level of security and privacy for the wireless communication. References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 8: Security Concepts, page 311.

**NEW QUESTION 193**

A global variable called "age" will be created in a program and incremented through the use of a function. Which of the following data types should be defined with the age variable?

- A. Integer
- B. Float
- C. Double
- D. String

**Answer: A**

**Explanation:**

Integer is a data type that can store whole numbers, such as 1, 0, or -2. Integer would be the best data type to use for creating a variable to hold an age value because age is usually expressed as a whole number of years. Float, double, and string are not data types that would be suitable for creating a variable to hold an age value. Float and double are data types that can store decimal or fractional numbers, such as 3.14, 0.5, or -2.75. String is a data type that can store text or characters, such as "Hello", "A", or "123". References: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61, Second Edition, Chapter 4: Programming Concepts and Data Structures, page 146.

#### NEW QUESTION 194

Which of the following would be considered the BEST method of securely distributing medical records?

- A. Encrypted flash drive
- B. Social networking sites
- C. Fax
- D. FTP file sharing

**Answer:** A

#### Explanation:

An encrypted flash drive would be the best method of securely distributing medical records among the given options. An encrypted flash drive is a portable storage device that uses encryption to protect the data stored on it. Encryption is a process of transforming data into an unreadable form that can only be restored with a key or password. Encryption can prevent unauthorized access or disclosure of sensitive or confidential data, such as medical records, if the flash drive is lost or stolen. An encrypted flash drive can also be used to transfer data between different devices or locations securely. References : The Official CompTIA IT Fundamentals (ITF+ Study Guide (FC0-U61), page 203.

#### NEW QUESTION 197

Which of the following are benefits of a security awareness training program? (Select two).

- A. Enhances overall security
- B. Provides information on how to avoid phishing
- C. Lowers the incidence of hardware failures
- D. Increases the availability of computers
- E. Advances end users' technical skills
- F. Creates IT security opportunities for end users

**Answer:** AB

#### Explanation:

The benefits of a security awareness training program are enhancing overall security and providing information on how to avoid phishing. Enhancing overall security is a benefit of a security awareness training program because it helps users understand the importance and value of security for themselves and their organization. It also helps users develop good security habits and behaviors, such as choosing strong passwords, locking their devices, reporting incidents, etc., which can prevent or reduce security risks and threats. Providing information on how to avoid phishing is a benefit of a security awareness training program because it helps users recognize and respond to phishing attacks, which are one of the most common and effective types of social engineering attacks. Phishing attacks involve sending fraudulent emails or messages that appear to come from legitimate sources to trick recipients into clicking on malicious links or attachments, or providing personal or financial information. A security awareness training program can teach users how to identify phishing signs, such as spelling errors, generic greetings, urgent requests, etc., and how to verify the sender, the URL, or the attachment before opening or responding. Lowering the incidence of hardware failures is not a benefit of a security awareness training program, but rather a benefit of a hardware maintenance program. A hardware maintenance program involves performing regular checks and repairs on the physical components of a system or network, such as disks, memory, CPU, power supply, etc., to ensure their proper functioning and performance. A hardware maintenance program can prevent or reduce hardware failures, which can cause data loss, corruption, or interruption for the system or network and its users. Increasing the availability of computers is not a benefit of a security awareness training program, but rather a benefit of a backup and recovery program. A backup and recovery program involves creating and restoring copies of data or systems in case of data loss, corruption, or disaster. A backup and recovery program can increase the availability of computers by ensuring that users can access their data or systems from alternative sources or locations in case of an emergency. Advancing end users' technical skills is not a benefit of a security awareness training program, but rather a benefit of a technical training program. A technical training program involves teaching users how to use various technologies or applications effectively and efficiently. A technical training program can advance end users' technical skills by increasing their knowledge, competence, and productivity with the technologies or applications they use. Creating IT security opportunities for end users is not a benefit of a security awareness training program, but rather a benefit of a career development program. A career development program involves providing users with guidance and resources to help them achieve their professional goals and aspirations. A career development program can create IT security opportunities for end users by exposing them to different IT security roles, paths, or certifications that they can pursue or obtain. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 7: Security Concepts

#### NEW QUESTION 200

A technician is called to replace a display for a workstation. Which of the following would MOST likely be used to connect the display to the workstation?

- A. USB
- B. NFC
- C. DSL
- D. DVI

**Answer:** D

#### Explanation:

DVI is the most likely connector that would be used to connect a display to a workstation. DVI stands for Digital Visual Interface, which is a standard that transmits digital video signals between devices. DVI can support high-resolution displays and multiple monitors. DVI connectors have three types: DVI-A (analog), DVI-D (digital), and DVI-I (integrated). DVI connectors have different numbers of pins depending on the type and mode. References : The Official CompTIA IT Fundamentals (ITF+) Study Guide (FC0-U61), page 54.

#### NEW QUESTION 202

Which of the following best describes when to use an array?

- A. The user needs to store multiple values in one object.
- B. The user needs the object to store one value and to be changeable.
- C. The user needs one object to store numbers only.
- D. The user needs the object to store one value permanently.

**Answer:** A

#### Explanation:

The best description of when to use an array is when the user needs to store multiple values in one object. An array is a data structure that can store multiple values of the same data type in an ordered sequence. An array can be accessed or modified by using an index or a position number that indicates the location of each value in the array. An array can be useful when the user needs to store multiple values in one object that can be easily manipulated or iterated over by using loops or functions. The user does not need the object to store one value and to be changeable when using an array, but rather when using a variable. A variable is a data structure that can store one value of any data type in memory. A variable can be accessed or modified by using an identifier or a name that represents the value in the variable. A variable can be useful when the user needs to store one value in an object that can be easily changed or reused throughout the program. The user does not need one object to store numbers only when using an array, but rather when using a numeric data type. A numeric data type is a category of data that can store numbers in various formats or ranges, such as integers, floating-point numbers, complex numbers, etc. A numeric data type can be useful when the user needs one object to store numbers only that can be used for calculations or comparisons in the program.

#### NEW QUESTION 203

Which of the following is used to protect intellectual property while requiring the owner to provide the public with working details?

- A. Patent
- B. Trademark
- C. License
- D. Copyright

**Answer:** A

#### Explanation:

A patent is used to protect intellectual property while requiring the owner to provide the public with working details of an invention or a process. A patent grants the owner the exclusive right to make, use, or sell the invention or process for a limited period of time, usually 20 years. A trademark is used to protect a name, symbol, logo, or slogan that identifies a product or service. A trademark grants the owner the exclusive right to use the mark to distinguish their product or service from others. A license is used to grant permission to use intellectual property under certain terms and conditions. A license does not transfer ownership of the intellectual property, but only grants limited rights to use it. A license can be revoked by the owner if the terms and conditions are violated. A copyright is used to protect original works of authorship, such as books, music, movies, or software. A copyright grants the owner the exclusive right to reproduce, distribute, perform, display, or create derivative works based on their original work. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 8: Software Development Concepts

#### NEW QUESTION 207

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 211

A technician travels to a data center to review specifications on a new project. Which of the following is the technician most likely to see pertaining to types of operating systems?

- A. Mobile device OS
- B. Workstation OS
- C. Embedded OS
- D. Hypervisor OS

**Answer:** D

#### Explanation:

A hypervisor OS is the most likely type of operating system that a technician would see pertaining to a data center. A hypervisor OS is an operating system that runs on a host machine and allows multiple guest operating systems to run on virtual machines. A hypervisor OS enables efficient utilization of hardware resources, scalability, and isolation of different workloads in a data center. Examples of hypervisor OS include VMware ESXi, Microsoft Hyper-V, and Citrix XenServer. A mobile device OS is an operating system that runs on a smartphone, tablet, or other portable device. A mobile device OS provides features such as touch screen, wireless connectivity, camera, GPS, and app store. Examples of mobile device OS include Android, iOS, and Windows Phone. A workstation OS is an operating system that runs on a desktop or laptop computer. A workstation OS provides features such as graphical user interface, file management, multitasking, and networking. Examples of workstation OS include Windows 10, macOS, and Linux. An embedded OS is an operating system that runs on a special-purpose device or system that performs a specific function. An embedded OS provides features such as real-time performance, low power consumption, and minimal user interface. Examples of embedded OS include Windows Embedded, Linux Embedded, and QNX. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 4: Operating System Fundamentals1

#### NEW QUESTION 215

The process of determining the source of an issue during troubleshooting is called:

- A. researching.
- B. sourcing.
- C. diagnosing.
- D. triagin

**Answer: C**

**Explanation:**

The process of determining the source of an issue during troubleshooting is called diagnosing. Diagnosing is the third step in the troubleshooting process, after gathering information and determining if anything has changed. Diagnosing involves analyzing the symptoms and possible causes of the problem, testing hypotheses, and identifying the root cause of the problem. Researching is the process of finding relevant information or resources to help solve a problem during troubleshooting. Researching can be done before or after diagnosing, depending on the availability and reliability of the information or resources. Sourcing is not a term used in troubleshooting, but it may refer to the process of finding or obtaining materials or components for a product or service. Triaging is not a term used in troubleshooting, but it may refer to the process of prioritizing problems or tasks based on their urgency or importance. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 2: IT Concepts and Terminology<sup>1</sup>

**NEW QUESTION 218**

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 Fundamentals<sup>1</sup>

**NEW QUESTION 222**

A help desk technician loads a browser-based ticketing system, but when navigating to the queue, the technician realizes that another employee's queue is being accessed. Which of the following explains the issue?

- A. The previous user's session is cached.
- B. The proxy settings were misconfigured.
- C. The application is not compatible with the browser.
- D. The browser was opened in private mod

**Answer: A**

**Explanation:**

The issue that explains why the technician is accessing another employee's queue is that the previous user's session is cached. Caching is the process of storing data temporarily in a memory or disk for faster access or reuse. Caching can improve the performance and efficiency of a browser-based application, but it can also cause security or privacy issues if the data is not cleared or updated properly. The previous user's session may have been cached by the browser or the application, and the technician may have accessed the same URL or credentials without logging out or clearing the cache. The proxy settings were not misconfigured, as this would not affect the access to another employee's queue, but rather the access to the internet or the application server. The proxy settings are the configuration options that determine how a browser connects to a proxy server, which is an intermediary server that acts as a gateway between the browser and the internet or the application server. The proxy server can provide security, anonymity, or caching functions for the browser. The application is not incompatible with the browser, as this would not affect the access to another employee's queue, but rather the functionality or appearance of the application. The application compatibility is the degree to which an application works correctly and efficiently with a specific browser or operating system. The browser was not opened in private mode, as this would not affect the access to another employee's queue, but rather prevent the caching of data. The private mode is a feature that allows a browser to browse the internet without storing any browsing history, cookies, cache, or other data on the device. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 5: Infrastructure Concepts<sup>1</sup>

**NEW QUESTION 225**

Employees must use a badge to enter and exit the building. Each time the badge is used, a log entry is created and stored to record who has entered and exited the building. Which of the following best describes what the log entries provide?

- A. Automation
- B. Accounting
- C. Authorization
- D. Authentication

**Answer: B**

**Explanation:**

The log entries that are created and stored when employees use their badges to enter and exit the building provide accounting. Accounting is a security function that records and tracks user activities and events on a system or network. Accounting can provide evidence of user actions, such as authentication, authorization, access, modification, or deletion of data or resources. Accounting can also provide information for billing, auditing, or reporting purposes. Accounting can be

implemented using log files, audit trails, or monitoring tools. Automation is not a security function, but rather a process of using technology to perform tasks or operations without human intervention. Automation can improve productivity, efficiency, accuracy, or reliability of a system or network. Automation can be implemented using scripts, programs, or tools. Authorization is not a security function that records and tracks user activities and events, but rather a security function that grants or denies user access to data or resources based on their identity and permissions. Authorization can ensure that users only access what they are allowed to access on a system or network. Authorization can be implemented using access control lists (ACLs), role-based access control (RBAC), or mandatory access control (MAC). Authentication is not a security function that records and tracks user activities and events, but rather a security function that verifies user identity based on credentials, such as passwords, tokens, biometrics, etc. Authentication can ensure that users are who they claim to be on a system or network. Authentication can be implemented using single-factor authentication (SFA), multi-factor authentication (MFA), or single sign-on (SSO). References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 7: Security Concepts1

#### NEW QUESTION 226

A technician has received multiple reports about a media player, which is located in a waiting room, turning on and off at various times of the day. The technician replaces the power adapter and turns the player back on. Which of the following should the technician do next?

- A. Verify there is full system functionality.
- B. Document the findings/lessons learned.
- C. implement the solution.
- D. Research the knowledge bas

**Answer:** A

#### Explanation:

The next step that the technician should do after replacing the power adapter and turning on the media player is verifying there is full system functionality. Verifying there is full system functionality is the fourth step in the troubleshooting process, after diagnosing and resolving the problem. Verifying there is full system functionality involves testing and confirming that the problem has been fixed and that no new problems have been introduced by the solution. Documenting the findings/lessons learned is not the next step after replacing the power adapter and turning on the media player, but rather the last step in the troubleshooting process, after verifying there is full system functionality. Documenting the findings/lessons learned involves creating a record of the problem and its solution for future reference or training purposes. Implementing the solution is not the next step after replacing the power adapter and turning on the media player, but rather part of resolving the problem in the third step of troubleshooting process. Implementing solution involves applying the chosen solution to fix problem. Researching knowledge base is not next step after replacing power adapter and turning on media player, but rather an optional step that can be done before diagnosing problem in troubleshooting process. Researching knowledge base involves finding relevant information resources to help solve problem. References: The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FC0-U61), Chapter 2: IT Concepts and Terminology

#### NEW QUESTION 230

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