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Question: 1

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

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

Answer: A

Explanation:

The file extension determines which application the OS uses to open the file in a GUI environment. It's the key factor the OS checks to associate the file with the appropriate program (e.g., .docx with Word, .jpg with an image viewer). The other options are relevant in broader contexts but not immediately critical when simply opening a file.

Question: 2

A database has the following schema:

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

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

- A. 3
- B. 4
- C. 12
- D. 21

Answer: B

Explanation:

Each row in the table (excluding the header row) represents a record in the database schema. The table has 4 data rows (John, Jane, Allison, Anna), so the number of records is 4.

Question: 3

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

- A. Modem
- B. Server
- C. Host firewall

D. Access point

Answer: D

Explanation:

An access point extends the range of a wireless network by allowing more devices to connect and by covering additional physical areas. The other options serve different purposes:

- Modem connects to the internet,
- Server provides services,
- Host firewall protects a device but does not extend network range.

Question: 4

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

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

Answer: B

Explanation:

Applying updates (also called patching) is the most effective way to secure software after a vulnerability is discovered. Vendors typically release patches that fix security flaws. While firewalls and authentication add layers of protection, they do not directly fix vulnerabilities. Uninstalling the program may not be practical or necessary.

Question: 5

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

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

Answer: D

Explanation:

Web browser history shows the websites that a user has visited and is the most direct way to determine if inappropriate online content was accessed.

Other options:

- System logs typically track system events,

- Cookie data stores session or site preferences,
- Location tracking shows physical location, not browsing activity.

Question: 6

A company updates its password policy to require that all passwords be reset every 60 days. Which of the following best describes this requirement?

- A. Password complexity
- B. Password management
- C. Password expiration
- D. Password privacy

Answer: C

Explanation:

Password expiration refers to the requirement that passwords must be changed after a certain period—in this case, every 60 days.

Other options:

- Password complexity involves rules about characters used,
- Password management is a broader concept including storage and retrieval,
- Password privacy refers to keeping passwords confidential.

Question: 7

Which of the following encryption types protects data at rest?

- A. File-level
- B. VPN
- C. HTTPS
- D. Plaintext

Answer: A

Explanation:

File-level encryption protects data at rest by encrypting files stored on a disk or drive, ensuring that data is secure even when not actively being transmitted.

Other options:

- VPN and HTTPS protect data in transit,
- Plaintext offers no encryption or protection.

Question: 8

Which of the following is the smallest storage unit?

- A. Petabyte
- B. Terabyte
- C. Kilobyte
- D. Megabyte

Answer: C

Explanation:

In terms of size from smallest to largest: Kilobyte < Megabyte < Terabyte < Petabyte.

Question: 9

A user lives in a remote area that does not have cabling or towers available. The user wants to connect to the internet. Which of the following is the best solution?

- A. Fiber optic
- B. IDSL
- C. Cellular
- D. Satellite

Answer: D

Explanation:

Satellite internet is ideal for remote areas without access to physical infrastructure like cabling or cellular towers.

Other options:

- Fiber optic and DSL require physical lines,
- Cellular needs tower coverage, which may not be available in remote locations.

Question: 10

Which of the following display types is bidirectional?

- A. DisplayPort
- B. VGA
- C. DVI
- D. USB-C

Answer: D

Explanation:

USB-C supports bidirectional communication, meaning it can send and receive data (including video) over the same connection.

DisplayPort, VGA, and DVI are primarily unidirectional display interfaces designed to send video from a source to a display.

Question: 11

A user needs to read documentation on a device while walking around outdoors in bright sunlight. Which of the following is the best type of device for this purpose?

- A. Laptop
- B. Tablet
- C. E-reader
- D. Smartphone

Answer: C

Explanation:

E-readers use e-ink displays, which are highly readable in bright sunlight and have long battery life — ideal for outdoor use.

Laptops, tablets, and smartphones often have glare or brightness issues in direct sunlight.

Question: 12

A user attempts to log in to a website and receives a prompt to update their password. Which of the following is this an example of?

- A. Password privacy
- B. Password history
- C. Password complexity
- D. Password expiration

Answer: D

Explanation:

A prompt to update a password during login typically indicates that the password has expired based on the system's policy.

Other options:

- Password history prevents reuse of old passwords,
- Password complexity sets rules for character requirements,
- Password privacy involves keeping the password confidential.

Question: 13

Which of the following types of AI is used to edit images?

- A. Assistive
- B. Predictive
- C. Chatbot
- D. Generative

Answer: D

Explanation:

Generative AI creates or modifies content, such as editing images, generating art, or producing media.

Other options:

- Assistive AI supports tasks,
- Predictive AI forecasts outcomes,
- Chatbots simulate conversation but do not edit images.

Question: 14

Given the following pseudocode:

```
<BODY>
```

```
<P>This is a paragraph.</P>
```

```
</BODY>
```

Which of the following best represents the type of language used by this code?

- A. Markup
- B. Query
- C. Compiled
- D. Scripting

Answer: A

Explanation:

The code shown uses HTML tags like `<BODY>` and `<P>`, which are part of a markup language. Markup languages describe the structure and presentation of text, not logic or computation.

Other options:

- Query languages retrieve data (e.g., SQL),
- Compiled languages are turned into machine code (e.g., C++),
- Scripting languages execute instructions (e.g., Python, JavaScript).

Question: 15

Which of the following can be used to input commands for a computer to execute?

- A. Services
- B. Attributes
- C. Process
- D. Console

Answer: D

Explanation:

A console (or command-line interface) allows users to input commands for the computer to execute directly.

Other options:

- Services run background tasks,

- Attributes describe properties of objects,
- Process refers to a running program, not a command input method.

Question: 16

Which of the following is the last tool that should be used when creating a custom-length network cable?

- A. Cable tester
- B. Crimper
- C. Wire cutter
- D. Ethernet connector

Answer: A

Explanation:

The cable tester is used last to verify the cable functions correctly after cutting, attaching connectors with a crimper, and assembling the Ethernet cable.

Wire cutter, Ethernet connector, and crimper are used earlier in the cable creation process.

Question: 17

Given the following pseudocode:

```
10 FOR Q=1 TO 100
20 PRINT Q
30 NEXT Q
40 EXIT
```

Which of the following best represents line 10?

- A. Attribute
- B. Sequence
- C. Branch
- D. Loop

Answer: D

Explanation:

Line 10 (FOR Q=1 TO 100) initializes a loop that iterates from 1 to 100.

Other options:

- Sequence refers to a straight execution of instructions,
- Branch involves decision-making (e.g., IF...THEN),
- Attribute is a descriptive property, not a control structure.

Question: 18

A user is logged in but unable to access a shared folder on the network. Which of the following security concepts is in place?

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

Answer: B

Explanation:

Authorization determines what a user is allowed to access after they have logged in. The user is already authenticated (logged in), but lacks permission to access the shared folder, indicating an authorization issue.

Other options:

- Authentication verifies identity,
- Accounting tracks user actions,
- Non-repudiation ensures actions cannot be denied later.

Question: 19

Given the following table:

ID	Month	Day	Year	Name
1	October	6	1969	James
2	May	13	1970	Jane
3	September	25	1999	John
4	April	15	1976	Helena

Which of the following fields best represents a primary key?

- A. ID
- B. Month
- C. Day
- D. Year
- E. Name

Answer: A

Explanation:

The ID field contains unique values for each record and is typically used as a primary key in a database. A primary key uniquely identifies each row in a table. Month, Day, Year, and Name may have duplicates and do not guarantee uniqueness.

Question: 20

A technician needs to install input devices while setting up a new desktop PC. Which of the following should the technician install? (Choose two.)

- A. Printer
- B. Mouse
- C. Keyboard
- D. CPU
- E. Speaker
- F. SSD

Answer: B, C

Explanation:

A mouse and keyboard are standard input devices used to interact with a desktop PC.

Other options:

- Printer and speaker are output devices,
- CPU is a processing unit,
- SSD is a storage device.

Question: 21

Users are discussing the birthdays and home addresses of notable public figures in a public chat ROOM.

Which of the following security concepts is being compromised?

- A. Confidentiality
- B. Integrity
- C. Privacy
- D. Availability

Answer: C

Explanation:

Discussing birthdays and home addresses of individuals — even public figures — violates privacy, which concerns the protection of personal or sensitive information.

Other options:

- Confidentiality refers to restricting access to sensitive data,
- Integrity ensures data is not altered,
- Availability ensures data and systems are accessible when needed.

Question: 22

Which of the following can best protect a computer when an infected file has been downloaded?

- A. Anti-malware
- B. Firewall
- C. Patching
- D. Permissions

Answer: A

Explanation:

Anti-malware software is specifically designed to detect, block, and remove malicious files, making it the best defense when an infected file has been downloaded.

Other options:

- Firewall controls network traffic,
- Patching prevents exploitation of known vulnerabilities but doesn't address already-downloaded malware,
- Permissions limit access but don't actively remove threats.

Question: 23

Which of the following is commonly used to measure the RAM capacity of a smartphone?

- A. GB
- B. KB
- C. MB
- D. TB

Answer: A

Explanation:

Gigabytes (GB) are the standard unit for measuring RAM capacity in modern smartphones, typically ranging from 2GB to 16GB.

KB and MB are too small, TB is used for large storage, not RAM.

Question: 24

A user identifies the reason a compute is not working, repairs it, and prints a test page. Which of the following steps should the user should take next?

- A. Submit a support ticket
- B. Test the theory.
- C. Implement the solution
- D. Document the actions taken

Answer: D

Explanation:

After identifying the issue, repairing the computer, and verifying the fix (e.g., printing a test page), the next step is to document the actions taken. This is a key part of the troubleshooting process to ensure there's a record for future reference and accountability.

Question: 25

Which of the following is the number of bits in a byte of data?

- A. 2
- B. 4
- C. 8
- D. 16

Answer: C

Explanation:

A byte consists of 8 bits, which is the standard unit of data in computing.

Question: 26

A user's internet speed is slow. The user logs in to the router's administrator portal and sees that unauthorized devices are connected to the network. Which of the following actions should the user take to prevent unauthorized use of the network?

- A. Call the internet provider's support line.
- B. Decrease the Wi-Fi signal range.
- C. Change the password.
- D. Reset the router.

Answer: C

Explanation:

Changing the Wi-Fi password immediately removes unauthorized devices and prevents them from reconnecting.

Other options:

- Calling support might help later but doesn't directly resolve the issue,
- Decreasing the signal range is unreliable,
- Resetting the router may help but doesn't prevent reentry without a password change.

Question: 27

A user has concerns about device theft because they are working on a laptop at a local coffee shop. Which of the following physical devices would be best to protect the laptop?

- A. Firewall
- B. Privacy shield
- C. USB lock
- D. Cable lock

Answer: D

Explanation:

A cable lock physically secures a laptop to a stationary object, helping to prevent theft in public spaces like coffee shops.

Other options:

- Firewall protects against network threats,
- Privacy shield prevents screen snooping,
- USB lock restricts port access but doesn't prevent theft.

Question: 28

A user is unable to connect from one workstation to another workstation. Which of the following should be configured to fix this issue?

- A. Firewall
- B. Database
- C. Anti-malware
- D. Certificate

Answer: A

Explanation:

A firewall may be blocking the connection between the two workstations. Configuring it to allow the necessary traffic can resolve connectivity issues.

Other options:

- Database and certificate are unrelated to basic workstation-to-workstation communication,
- Anti-malware protects against threats but doesn't control network access.

Question: 29

A web page is displaying outdated credentials when a user enters information in an online form.

Which of the following actions should the user complete first to fix the issue?

- A. Change the user profile.
- B. Turn off pop-up blockers.
- C. Clear the cache.
- D. Remove add-ons.

Answer: C

Explanation:

Clearing the cache removes stored web data, including outdated form entries or credentials that might be automatically populated by the browser.

Changing the user profile, turning off pop-up blockers, or removing add-ons are less likely to resolve this specific issue.

Question: 30

Which of the following best describes the primary connection between a wireless access point and a tablet?

- A. 802.11X
- B. Thunderbolt
- C. Bluetooth
- D. USB-C

Answer: A

Explanation:

802.11X (commonly referring to the 802.11 family of standards like 802.11ac or 802.11ax) is the WiFi protocol used for wireless communication between devices like tablets and access points.

Other options:

- Bluetooth is for short-range, low-bandwidth connections,
- Thunderbolt and USB-C are wired connections.

Question: 31

A user wants to graphically depict the steps of a process. Which of the following types of software should the user utilize?

- A. Spreadsheet
- B. Word processing
- C. Presentation
- D. Diagramming

Answer: D

Explanation:

Diagramming software is specifically designed to graphically represent processes, using flowcharts, diagrams, and visual models.

Other options:

- Spreadsheets handle data and calculations,
- Word processing is for text documents,
- Presentation tools create slide shows, not detailed process diagrams.

Question: 32

Which of the following represents the value of 9 with ones and zeros?

- A. Octal
- B. Decimal
- C. Binary
- D. Hexadecimal

Answer: C

Explanation:

Binary represents numbers using only ones and zeros. The value 9 in binary is 1001.

Other options:

- Decimal uses base 10,
- Octal uses base 8,
- Hexadecimal uses base 16.

Question: 33

A user needs to securely access a remote network from home. Which of the following should the user utilize for secure remote access?

- A. LAN
- B. FTP
- C. DNS
- D. VPN

Answer: D

Explanation:

A VPN (Virtual Private Network) allows users to securely connect to a remote network over the internet by encrypting the connection.

Other options:

- LAN is a local network,
- FTP transfers files but is not secure by default,
- DNS resolves domain names and doesn't provide secure access.

Question: 34

A manager wants to provide information to employees during a company meeting. Which of the following types of software is the best solution?

- A. Word processing
- B. Visual diagramming
- C. Conferencing
- D. Presentation

Answer: D

Explanation:

Presentation software is best suited for delivering information visually and clearly during meetings, using slides that include text, images, and charts.

Other options:

- Word processing is for documents,
- Visual diagramming is for illustrating processes,
- Conferencing enables communication but doesn't structure content for display.

Question: 35

Which of the following actions would help a user validate a website's certificate on a browser?

- A. Clicking the lock symbol next the URL
- B. Clearing the cookies and cache
- C. Enabling a pop-up blocker
- D. Deleting the browser history

Answer: A

Explanation:

Clicking the lock symbol in a browser shows the website's security certificate details, such as the issuing authority and expiration date, which helps the user validate the site's authenticity and security.

Clearing cookies, enabling pop-up blockers, and deleting history do not provide certificate validation.

Question: 36

A systems administrator requires access to a user's laptop over a VPN for troubleshooting. Which of the following software types should the systems administrator use?

- A. Collaboration
- B. Productivity
- C. Web browsing
- D. Remote assistance

Answer: D

Explanation:

Remote assistance software allows a systems administrator to remotely access and control a user's device, especially over a VPN, for troubleshooting and support.

Other options:

- Collaboration tools are for team communication,
- Productivity software includes apps like word processors,
- Web browsing is unrelated to remote access.

Question: 37

Which of the following is used to represent a device's physical address?

- A. Hexadecimal
- B. Octal
- C. Decimal
- D. Binary

Answer: A

Explanation:

A device's physical address, also known as a MAC (Media Access Control) address, is typically represented in hexadecimal format (e.g., 00:1A:2B:3C:4D:5E).

Other options:

- Binary is used internally by computers,
- Decimal and Octal are not standard formats for MAC addresses.

Question: 38

Given the following data sequence:

1, 10, 2, 3, 4, 5, 6, 7, 8, 9

Which of the following data types are these values an example of?

- A. Float
- B. ASCII
- C. Boolean
- D. String

Answer: C

Explanation:

Although the values look like numbers, the ordering (1, 10, 2, 3...) suggests they are being treated as strings, not numerical values. In string sorting, "10" comes after "1" but before "2" due to character-by-character comparison.

Other options:

- Float is for decimal numbers,
- ASCII refers to character encoding,
- Boolean represents true/false values.

Question: 39

Which of the following describes a printer?

- A. Processing

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

Answer: B

Explanation:

A printer is an output device because it takes digital data from a computer and produces a physical, printed result.

Other options:

- Input devices send data to the computer,
- Processing is done by the CPU,
- Storage refers to saving data, like on a hard drive.

Question: 40

A user wants to download music from a computer to a smartphone. Which of the following cables should the user use to transfer the files?

- A. USB-C
- B. VGA
- C. Thunderbolt
- D. NFC

Answer: A

Explanation:

USB-C is a common cable type used for data transfer and charging between modern smartphones and computers.

Other options:

- VGA is for video output only,
- Thunderbolt is typically used with specific high-speed devices and not standard for most smartphones,
- NFC is a wireless short-range communication method, not a cable.

Question: 41

Which of the following is used to securely transfer files over the internet?

- A. Compression
- B. Permissions
- C. Encryption
- D. Email

Answer: C

Explanation:

Encryption ensures that files are securely transferred over the internet by making the data unreadable to unauthorized users during transmission.

Other options:

- Compression reduces file size,
- Permissions control access but don't secure transmission,
- Email is a method of transfer but not inherently secure without encryption.

Question: 42

A user is writing code to calculate the amount of pay for each worker at a company. The pay rate is the same for all workers. The code will use the formula $\text{amount_of_pay} = \text{number_of_hours} * \text{pay_rate}$

Which of the following should be used in the code to represent `pay_rate`?

- A. Object
- B. Function
- C. Constant
- D. Array

Answer: C

Explanation:

Since `pay_rate` is the same for all workers and does not change, it should be represented as a constant in the code. Constants are fixed values that do not change during program execution.

Other options:

- Object represents complex data structures,
- Function performs actions or calculations,
- Array holds multiple values, often varying per index.

Question: 43

Which of the following can be used to stop an application that is no longer responding?

- A. Access management
- B. Task management
- C. Disk management
- D. Device management

Answer: B

Explanation:

Task management (such as using Task Manager in Windows) allows users to view and stop unresponsive applications.

Other options:

- Access management controls user permissions,
- Disk management handles storage devices,
- Device management manages hardware components.

Question: 44

A user is creating a simple, static web page. Which of the following language types should the user use?

- A. Query
- B. Assembly
- C. Scripting
- D. Markup

Answer: D

Explanation:

A markup language like HTML is used to create simple, static web pages, defining the structure and layout of the content.

Other options:

- Query languages retrieve data (e.g., SQL),
- Assembly is low-level programming,
- Scripting adds interactivity but isn't needed for static pages.

Question: 45

An employee is working on a database and wants to retrieve specific information. Which of the following should the employee use?

- A. Big data
- B. Input
- C. Scale
- D. Query

Answer: D

Explanation:

A query is used to retrieve specific information from a database by asking structured questions (typically using SQL).

Other options:

- Big data refers to large, complex data sets,
- Input refers to data entered into a system,
- Scale relates to system growth or size.

Question: 46

A group wants to store data while collaborating on a project. Which of the following is the best option to enable high availability of the data?

- A. Cloud storage
- B. External hard drive
- C. Flash drive
- D. Local backup

Answer: A

Explanation:

Cloud storage provides high availability, allowing multiple users to access and collaborate on data anytime and from anywhere with an internet connection.

External hard drives, flash drives, and local backups are limited to physical access and do not support real-time collaboration or high availability.

Question: 47

A user wants to use virtualization on a local workstation. Which of the following best describes the technology that will be used?

- A. Guest OS
- B. Cloud
- C. SaaS
- D. Hypervisor

Answer: D

Explanation:

A hypervisor is the technology that enables virtualization on a local workstation by allowing multiple guest operating systems to run on a single physical machine.

Other options:

- Guest OS is what runs inside the virtual machine,
- Cloud and SaaS are remote services, not local virtualization technologies.

Question: 48

An application is unresponsive. Which of the following will close the application?

- A. Task management
- B. System utilities
- C. Remote assistance
- D. File permissions

Answer: A

Explanation:

Task management tools (like Task Manager in Windows) allow users to forcefully close unresponsive applications.

Other options:

- System utilities are general maintenance tools,
- Remote assistance helps another user access the system,
- File permissions control access to files, not running applications.

Question: 49

Which of the following is used for predictive text?

- A. Extensions
- B. Big data
- C. Artificial intelligence
- D. Generated code

Answer: C

Explanation:

Artificial intelligence (AI) is used in predictive text systems to analyze patterns and suggest likely next words or phrases.

Other options:

- Extensions add browser or software features,
- Big data is large-scale data, not the mechanism,
- Generated code refers to code produced automatically, not text prediction.

Question: 50

A user plugs a new scanner into a computer and turns it on. The scanner is automatically detected. However, the OS will only respond to some, but not all, of the buttons on the scanner. Which of the following steps should the user take next to enable full functionality?

- A. Roll back the device driver to a previous version.
- B. Perform a test scan on the new device to the computer.
- C. Update the computer's OS.
- D. Install any applicable software from the vendor's website.

Answer: D

Explanation:

Installing the vendor's software often includes specific drivers and utilities needed to enable full functionality of all buttons and features on the scanner.

Other options:

- Rolling back the driver is for troubleshooting new driver issues,
- Testing a scan doesn't resolve missing features,
- Updating the OS is useful but not likely to fix device-specific issues.

Question: 51

A refrigerator sends an alert to user's phone when there is no more milk. Which of the following OS types is being used in the refrigerator?

- A. Server
- B. Embedded
- C. Mobile
- D. Workstation

Answer: B

Explanation:

The refrigerator uses an embedded operating system, which is a specialized OS designed to run on dedicated devices like appliances, allowing them to perform specific functions such as sending alerts.

Server, mobile, and workstation OS types are intended for broader, more complex systems.

Question: 52

A database administrator wants to retrieve recently updated entries. Which of the following functions should the administrator run to complete the task?

- A. Create
- B. Query
- C. Import
- D. Report

Answer: B

Explanation:

A query allows the database administrator to retrieve specific data, such as recently updated entries, by using conditions and filters.

Other options:

- Create adds new entries,
- Import brings in data from external sources,
- Report formats and presents data but doesn't retrieve it based on conditions.

Question: 53

A student is setting up a laptop with a built-in camera for an online class. Upon logging in, the student is able to see the teacher, but the teacher is unable to see the student. Which of the following actions would most likely fix this issue?

- A. Disable pop-up blockers.
- B. Update the device driver.
- C. Install a videoconference application.
- D. Reset the peripheral IP.

Answer: B

Explanation:

If the built-in camera is not functioning properly, such as not sending video, the most likely cause is a driver issue. Updating the device driver can restore proper functionality.

Other options:

- Pop-up blockers don't affect camera access,
- Installing the app is not needed if it's already in use,
- Resetting the peripheral IP is unrelated to camera functionality.

Question: 54

Which of the following must be configured to install a printer on a network?

- A. Physical address
- B. IP address
- C. MAC address
- D. Access point

Answer: B

Explanation:

A network printer must have an IP address configured so that devices on the network can locate and communicate with it.

Other options:

- MAC address is used at a lower network level but isn't configured by users,
- Physical address is another term for MAC address,
- Access point provides wireless connectivity but is not required just to install a printer.

Question: 55

A user logs in with the same credentials across multiple websites. Which of the following password policies would most likely prevent this practice?

- A. Reuse

- B. Complexity
- C. Privacy
- D. Length

Answer: A

Explanation:

A password reuse policy prevents users from using the same password across multiple systems or websites, helping to improve security by reducing the impact of a compromised password.

Other options:

- Complexity ensures password strength,
- Privacy relates to keeping passwords secret,
- Length specifies the minimum number of characters.

Question: 56

Which of the following internet services traditionally has the most challenges with latency?

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

Answer: C

Explanation:

Satellite internet traditionally has the most latency because data must travel to and from satellites orbiting the Earth, introducing significant delay.

DSL, fiber, and cable are ground-based and generally have much lower latency.

Question: 57

Which of the following features of an OS prioritizes a program's use of resources?

- A. Application management
- B. Process management
- C. Access management
- D. Device management

Answer: B

Explanation:

Process management is the feature of an operating system that prioritizes and allocates resources (like CPU and memory) to running programs, ensuring efficient execution and multitasking.

Other options:

- Application management oversees app installation and updates,

- Access management controls user permissions,
- Device management handles hardware components.

Question: 58

Which of the following is a GPU an example of?

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

Answer: C

Explanation:

A GPU (Graphics Processing Unit) is a processing device designed to handle complex graphics and visual computations, making it an essential part of rendering images, video, and more.

It is not used for input, output, or storage.

Question: 59

A user downloads an application from a website and intends to modify the application's code. Which of the following license types does the user need for this task?

- A. Subscription-based
- B. Proprietary
- C. Open-source
- D. Perpetual

Answer: C

Explanation:

An open-source license allows users to access, modify, and redistribute the application's source code legally.

Other options:

- Proprietary licenses restrict code access,
- Subscription-based refers to payment terms,
- Perpetual allows indefinite use but doesn't grant modification rights.

Question: 60

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

- A. Full name
- B. Date of birth
- C. Employment status

- D. School attended
- E. Social media username
- F. City of residence

Answer: A, B

Explanation:

Full name and date of birth are classic examples of Personally Identifiable Information (PII) because they can be used to uniquely identify an individual.

The other options are less specific and not uniquely identifying on their own.

Question: 61

A developer creates the following code:

If the light is red, then stop

Else if the light is green, then go

Which of the following programming concepts is the developer using?

- A. Commenting
- B. Looping
- C. Object-oriented
- D. Branching

Answer: D

Explanation:

The code uses branching, which allows the program to make decisions and follow different paths based on conditions (e.g., "if... else if...").

Other options:

- Commenting adds notes to code,
- Looping repeats actions,
- Object-oriented programming involves organizing code into objects and classes.

Question: 62

A user is unable to load the most recent version of a web page. The old page loads each time the screen is refreshed. Which of the following would the user most likely do to resolve the issue?

- A. Synchronize the profile.
- B. Disable browser extensions.
- C. Clear the cache.
- D. Enable the pop-up blocker.

Answer: C

Explanation:

Clearing the cache removes stored versions of web pages that the browser may be reloading instead of fetching the latest version. This is the most likely fix when a web page displays outdated content.

Profile sync, extensions, and pop-up blockers are unrelated to loading cached pages.

Question: 63

A user wants to purchase a portable device that can be used exclusively for viewing books. Which of the following devices would be the best option?

- A. Laptop
- B. E-reader
- C. Tablet
- D. VR system

Answer: B

Explanation:

An e-reader is the best option for viewing books due to its e-ink display, which is easier on the eyes, readable in bright light, and has long battery life — making it ideal for exclusive reading use.

Other options:

- Laptops and tablets are multipurpose.
- VR systems are not designed for reading.

Question: 64

Which of the following is an advantage of using a flat file for a small amount of data?

- A. Speed
- B. Scalability
- C. Concurrent users.
- D. Variety of data

Answer: A

Explanation:

Flat files are simple text-based databases that offer fast access and quick setup for small amounts of data, making speed their primary advantage.

They lack scalability, are not ideal for concurrent users, and are limited in handling a variety of data types.

Question: 65

A user needs to reconfigure local storage on an OS. Which of the following should be used?

- A. Process management
- B. Task management
- C. Device management
- D. Disk management

Answer: D

Explanation:

Disk management is the tool used to reconfigure local storage, such as formatting drives, creating or deleting partitions, and assigning drive letters within an operating system.

Other options:

- Process management handles running programs,
- Task management ends or monitors active tasks,
- Device management oversees hardware components, but not specifically storage configuration.

Question: 66

Which of the following is used to measure the speed of a CPU?

- A. MHz
- B. MB
- C. Mbps
- D. MAC

Answer: A

Explanation:

MHz (Megahertz) and GHz (Gigahertz) are units used to measure CPU speed, indicating how many millions or billions of cycles per second the CPU can perform.

Other options:

- MB measures data size,
- Mbps measures network speed,
- MAC refers to a device's hardware address.

Question: 67

A technician is reviewing log files to track the number of times that a specific user has logged on to the networks. Which of the following security concepts is being used?

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

Answer: A

Explanation:

Accounting refers to the process of tracking user activities, such as logon attempts and resource access.

Reviewing log files to count logins is a clear example of this concept.

Other options:

- Authentication verifies identity,
- Authorization controls access to resources,
- Non-repudiation ensures that actions cannot be denied.

Question: 68

A programmer designs an application to record user actions in a log file for proper tracking. Which of the following best describes the recording component of the application?

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

Answer: A

Explanation:

Accounting involves recording user actions and system events, such as logging activity in a file for tracking and auditing purposes.

Other options:

- Authentication confirms identity,
- Authorization grants access rights,
- Non-repudiation ensures a user cannot deny having performed an action, often involving digital signatures or audit trails beyond simple logging.

Question: 69

Which of the following concepts is represented by the sale of customer email addresses to potential product vendors?

- A. Data monetization
- B. Data correlation
- C. Data analytics
- D. Data capture

Answer: A

Explanation:

Data monetization refers to the process of generating revenue from data, such as selling customer email addresses to third parties like product vendors.

Other options:

- Data correlation links related data sets,
- Data analytics involves analyzing data for insights,
- Data capture is the process of collecting data.

Question: 70

A company is using data to provide senior leaders with information to drive company decisionmaking. Which of the following best describes this process?

- A. Meaningful reporting
- B. Data capture
- C. Data minimization
- D. Monetization

Answer: A

Explanation:

Providing senior leaders with actionable information derived from data to support decision-making is best described as meaningful reporting.

Other options:

- Data capture is collecting data,
- Data minimization limits data collection,
- Monetization involves generating revenue from data.

Question: 71

A user finds a USB device and plugs it into a laptop. The laptop does not detect the USB device. Which of the following is the most likely cause of this issue?

- A. Disabled port
- B. Anti-malware
- C. Insufficient memory
- D. Account permissions

Answer: A

Explanation:

If the USB device is not detected, the most likely cause is that the USB port is disabled in the system settings or BIOS, preventing the hardware from being recognized.

Other options:

- Anti-malware usually does not block hardware detection,
- Insufficient memory affects system performance, not USB detection,

- Account permissions generally don't prevent USB detection but may restrict usage.

Question: 72

Which of the following should be checked to ensure a user is authenticated by a web server?

- A. Account logs
- B. Browser history
- C. Permissions
- D. Firewall

Answer: A

Explanation:

Account logs record authentication attempts and can be checked to verify whether a user has successfully authenticated with a web server.

Other options:

- Browser history tracks visited sites,
- Permissions control access after authentication,
- Firewall manages network traffic, not authentication records.

Question: 73

Which of the following uses the M.2 form factor?

- A. NVMe
- B. GPU
- C. RAM
- D. NIC

Answer: A

Explanation:

The M.2 form factor is commonly used for NVMe (Non-Volatile Memory Express) SSDs, which are high-speed storage devices.

GPU (graphics card), RAM (memory), and NIC (network interface card) use different form factors.

Question: 74

Which of the following does a diamond represent in a flowchart?

- A. Start
- B. Decision

- C. Processing
- D. Stop

Answer: B

Explanation:

In a flowchart, a diamond shape represents a decision point, where the flow branches based on a yes/no or true/false condition.

Other options:

- Start and Stop are usually represented by ovals,
- Processing steps are shown as rectangles.

Question: 75

Which of the following units of measurement is the largest?

- A. GB
- B. TB
- C. PB
- D. MB

Answer: C

Explanation:

The units in order from smallest to largest are: MB (Megabyte) < GB (Gigabyte) < TB (Terabyte) < PB (Petabyte).

Question: 76

Which of the following must be included when backing up a workstation?

- A. Cloud-hosted files
- B. Application data
- C. Emails
- D. Installation files

Answer: B

Explanation:

When backing up a workstation, it's essential to include application data, which contains the user's work and settings.

Other options:

- Cloud-hosted files are usually backed up separately by the cloud service,

- Emails may be stored in the cloud or server,
- Installation files can typically be re-downloaded and are not critical for backup.

Question: 77

Given the following pseudocode:

```
10 READ Q,W
20 PRINT Q,W
30 GOTO 10
40 DATA 10,20,30,40,50,60,70,80,90,100
```

Which of the following best defines the type of data being used?

- A. Boolean
- B. Array
- C. Variable
- D. Function

Answer: B

Explanation:

The DATA statement lists multiple values (10, 20, 30, etc.) which are stored sequentially and accessed in order, representing an array or list of data elements.

Other options:

- Boolean is true/false,
- Variable stores a single value,
- Function performs operations or calculations.

Question: 78

Which of the following types of programming languages uses tags rather than code?

- A. Markup
- B. Assembly
- C. Query
- D. Compiled

Answer: A

Explanation:

Markup languages (like HTML and XML) use tags to define structure and presentation, rather than traditional programming code.

Other options:

- Assembly is low-level code,
- Query languages retrieve data,
- Compiled languages are translated into machine code.

Question: 79

A programmer wants to write code that will be more efficient when executed at runtime. Which of the following language types should the programmer use?

- A. Markup
- B. Compiled
- C. Query
- D. Scripting

Answer: B

Explanation:

Compiled languages are transformed into machine code before runtime, resulting in faster and more efficient execution compared to interpreted scripting languages.

Other options:

- Markup is for structuring data,
- Query languages are for data retrieval,
- Scripting languages are typically interpreted at runtime.

Question: 80

A user wants to connect to a home's Wi-Fi from the basement but is unable to do so. Which of the following is a potential cause of the issue?

- A. Interference
- B. Speed
- C. Synchronization
- D. Permission

Answer: A

Explanation:

Interference from walls, floors, or other electronic devices can weaken Wi-Fi signals, making it difficult to connect from locations like a basement.

Other options:

- Speed affects data transfer rate but not connection availability,
- Synchronization relates to timing, not connection,
- Permission would prevent connection if access credentials were incorrect, but the scenario implies a signal issue.

Question: 81

A lab technician removes access from students who do not need to use a fileshare. Which of the following best describes this action?

- A. Least privilege model
- B. Non-repudiation
- C. Multifactor authentication
- D. Single sign-on

Answer: A

Explanation:

Removing unnecessary access to resources like fileshares follows the least privilege model, ensuring users only have the minimum permissions necessary for their tasks.

Other options:

- Non-repudiation ensures actions cannot be denied,
- Multifactor authentication involves multiple verification steps,
- Single sign-on allows one login for multiple systems.

Question: 82

A programmer needs to create a space in an application code to hold a value. The value will be updated periodically when the code is executed. Which of the following should the programmer use?

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

Answer: A

Explanation:

A variable is used to store a value that can be updated or changed during program execution.

Other options:

- Sequence refers to the order of instructions,
- Loop repeats code,
- Constant holds a fixed value that does not change.

Question: 83

A systems administrator resolves a persistent issue with a laptop. Which of the following steps should the administrator take next?

- A. Test the theory.
- B. Document the findings.
- C. Create an action plan.
- D. Implement the action plan

Answer: B

Explanation:

After resolving an issue, the next important step is to document the findings and solution to provide a record for future reference and help others with similar issues.

Testing the theory, creating, and implementing action plans happen earlier in the troubleshooting process.

Question: 84

Which of the following is used to create a repetitive process within code?

- A. Loop
- B. Branch
- C. Comment
- D. Integrate

Answer: A

Explanation:

A loop is a programming construct that repeats a block of code multiple times until a condition is met.

Other options:

- Branch controls decision-making paths,
- Comment adds notes to code,
- Integrate means combining parts but is not a programming construct.

Question: 85

A company implements a tool to allow employees to conduct meetings over the internet. Which of the following tools did the company implement?

- A. Web browsing
- B. Document sharing
- C. Remote assistance
- D. Conferencing software

Answer: D

Explanation:

Conferencing software enables employees to conduct meetings over the internet, supporting audio, video, and screen sharing.

Other options:

- Web browsing is for accessing websites,
- Document sharing focuses on collaborative files,
- Remote assistance allows remote control or support.

Question: 86

Which of the following best describes a group of computers that are in close proximity to each other on the same network?

- A. MAC
- B. Peer-to-peer
- C. LAN
- D. Client/server

Answer: C

Explanation:

A Local Area Network (LAN) is a group of computers located in close proximity (such as an office or building) connected on the same network.

Other options:

- MAC refers to a hardware address,
- Peer-to-peer describes a network model without centralized servers,
- Client/server describes a network model with centralized servers serving clients.

Question: 87

Which of the following could be a letter, number, or symbol?

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

Answer: C

Explanation:

A char (character) represents a single letter, number, or symbol in programming.

Other options:

- String is a sequence of characters,
- Boolean represents true/false values,
- Integer is a whole number.

Question: 88

Which of the following data types would be best for storing data representing a phone number?

- A. String

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

Answer: A

Explanation:

A phone number is best stored as a string because it may include leading zeros, parentheses, dashes, or plus signs, which are not handled properly by numeric data types like integers or floats.

Other options:

- Integer and float are numeric types unsuitable for formatted phone numbers,
- Char holds only a single character.

Question: 89

Which of the following is a touch screen used for? (Choose two.)

- A. Storage
- B. Input
- C. Output
- D. Networking
- E. Processing
- F. Logging

Answer: B, C

Explanation:

A touch screen functions as both an input device (accepting user touch commands) and an output device (displaying images and information).

It does not perform storage, networking, processing, or logging.

Question: 90

Which of the following makes a file readable only by select users who possess a key?

- A. Hidden folders
- B. File permissions
- C. Compression
- D. Encryption

Answer: D

Explanation:

Encryption makes a file readable only by users who have the decryption key, protecting data

confidentiality.

Other options:

- Hidden folders only conceal files but don't restrict access,
- File permissions control access but do not encrypt data,
- Compression reduces file size without restricting access.

Question: 91

A database administrator creates a new database and assigns the primary key. Which of the following database types has the administrator created?

- A. Document
- B. Key/value
- C. Relational
- D. Non-structured

Answer: C

Explanation:

A relational database uses primary keys to uniquely identify records and establish relationships between tables.

Other options:

- Document and key/value databases are NoSQL types that do not require primary keys in the traditional sense,
- Non-structured databases do not organize data into structured tables.

Question: 92

A user moves to a new desk that is located next to the kitchen. Now, the user can no longer log in to the wireless network. Which of the following is causing this issue?

- A. Speed considerations,
- B. Older standards
- C. Access control
- D. Interference factors

Answer: D

Explanation:

The proximity to the kitchen likely introduces interference (from appliances like microwaves) that disrupts the wireless signal, preventing the user from logging in.

Other options:

- Speed considerations affect throughput,
- Older standards relate to compatibility,

- Access control manages permissions but wouldn't be location-dependent.

Question: 93

Which of the following units of measurement is used when describing a gaming monitor?

- A. GPU
- B. RAM
- C. TB
- D. MHz

Answer: D

Explanation:

MHz (Megahertz) is used to describe the refresh rate or frequency of a gaming monitor, indicating how many times per second the screen updates.

Other options:

- GPU is a graphics processor,

- RAM is memory,
- TB measures storage capacity.

Question: 94

Which of the following is most likely the fastest residential internet option?

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

Answer:

D

Explanation:

Fiber optic internet provides the fastest speeds for residential use due to its high bandwidth and low latency, surpassing satellite, cable, and DSL options.

Question: 95

Which of the following represents the largest unit of storage?

- A. 20TB
- B. 200MB
- C. 2,000GB
- D. 2,000KB

Answer:

C

Explanation:

The units rank as follows from largest to smallest:

- 1 TB = 1,000 GB,
- 20 TB = 20,000 GB,
- 2,000 GB is smaller than 20 TB
- 200 MB and 2,000 KB are much smaller units.

Question: 96

Which of the following is reset when a workstation is turned off?

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

Answer: D

Explanation:

RAM (Random Access Memory) is volatile memory, meaning it loses all stored data when power is turned off.

BIOS, NIC, and CPU retain their configurations or functions independently of power state.

Question: 97

Which of the following hard drives has the largest capacity?

- A. 2TB
- B. 50KB
- C. 100GB
- D. 4,000MB

Answer: A

Explanation:

Capacity sizes from smallest to largest:

- 50KB (kilobytes),
- 4,000MB (megabytes = 4GB),
- 100GB (gigabytes),
- 2TB (terabytes) which is the largest.

Question: 98

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

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

Answer: C

Explanation:

A method is a function or procedure associated with an object that performs an action, such as retrieving customer names from a database.

Other options:

- Variable stores data,

- Attribute describes properties of an object,
- Looping refers to repeating code blocks.

Question: 99

A user wants to access books and does not need printed, physical copies. The solution should be portable and lightweight. Which of the following is the best solution?

- A. E-reader
- B. Servers
- C. External drive
- D. Workstation

Answer: A

Explanation:

An e-reader is portable, lightweight, and designed specifically for reading digital books, making it the best solution for accessing books without physical copies.

Other options:

- Servers and workstations are not portable devices,
- External drives store data but are not designed for reading books directly.

Question: 100

A technician identifies the potential cause of a problem. Which of the following troubleshooting steps should the technician take next?

- A. Test the theory.
- B. Create a plan of action.
- C. Document the findings.
- D. Verify system functionality.

Answer: A

Explanation:

After identifying the potential cause of a problem, the next step is to test the theory to confirm if the suspected cause is correct before proceeding with a solution.

Other options:

- Create a plan of action and verify system functionality come after confirmation,
- Document the findings is done after resolution.

Question: 101

Which of the following is considered an output device?

- A. Smart TV

- B. Web camera
- C. Keyboard
- D. Microphone

Answer: A

Explanation:

A Smart TV is an output device as it displays video and audio to the user.

Web camera, keyboard, and microphone are input devices.

Question: 102

A user is trying to view a report via a hyperlink on a website. When the user clicks on the hyperlink, **nothing** happens. Which of the following must be configured to view the report?

- A. Cache clearing
- B. Accessibility options
- C. Pop-up blocker
- D. Private browsing

Answer: C

Explanation:

If clicking a hyperlink does nothing, it's often because a pop-up blocker is preventing the report from opening in a new window or tab. Disabling or configuring the pop-up blocker should resolve this.

Other options:

- Cache clearing refreshes stored data,
- Accessibility options adjust UI for usability,
- Private browsing restricts history but doesn't block pop-ups by default.

Question: 103

A user's device is experiencing slow processing performance when multiple applications are running at the same time. Which of the following components is causing this issue?

- A. Storage
- B. Motherboard
- C. NIC
- D. RAM

Answer: D

Explanation:

RAM (Random Access Memory) is responsible for temporarily storing data for running applications. When multiple applications run simultaneously and RAM is insufficient, the system slows down due to excessive

paging or swapping.

Other options:

- Storage affects data retrieval speed but less directly impacts multitasking performance,
- Motherboard connects components but isn't usually the cause of slow processing itself,
- NIC handles network connections, unrelated to processing speed.

Question: 104

Which of the following is an example of a MAC address?

- A. 00:50:09:2D:4D:94
- B. 0x3476
- C. 192.68.10.24
- D. fe80:102d:cd62:5434:82ae

Answer: A

Explanation:

A MAC address is a unique hardware identifier formatted as six groups of two hexadecimal digits separated by colons or hyphens.

Other options:

- 0x3476 is a hexadecimal number,
- 192.68.10.24 is an IPv4 address,
- fe80:102d:cd62:5434:82ae is an IPv6 address.

Question: 105

A user needs to transfer a 100GB data file to a coworker, but the network is down. Which of the following should the user most likely use instead?

- A. NAS
- B. Flash drive
- C. RAM
- D. Cloud

Answer: B

Explanation:

When the network is down, a flash drive is the most practical alternative for transferring large files like 100GB by physically handing over the storage device.

Other options:

- NAS requires network access,
- RAM is volatile memory and cannot be used for file transfer,
- Cloud requires internet connectivity.

Question: 106

A user is typing a document using a keyboard. Which of the following describes this action?

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

Answer: A

Explanation:

Typing on a keyboard provides input to the computer, allowing the user to enter data or commands.

Other options:

- Storage saves data,
- Output displays or presents data,
- Processing manipulates data internally.

Question: 107

Which of the following refers to a human-readable program?

- A. Branch
- B. Sequence
- C. Object-oriented
- D. Pseudocode

Answer: D

Explanation:

Pseudocode is a human-readable description of a program's logic, using plain language and structured formatting to outline steps without strict syntax.

Other options:

- Branch refers to decision points in code,
- Sequence refers to the order of operations,
- Object-oriented describes a programming paradigm.

Question: 108

An employee attempts to install software on a PC. A prompt to enter a username and password appears on-screen. The employee then receives an "access denied" message and cannot install the software. Which of the following types of access would allow the employee to accomplish this task?

- A. Least privilege
- B. Administrator
- C. Single factor
- D. User

Answer: B

Explanation:

Installing software typically requires administrator-level access, which grants permission to make system changes.

Other options:

- Least privilege limits user rights,
- Single factor refers to authentication methods,
- User level usually does not have installation permissions.