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**QUESTION 1**

Which of the following is primarily a confidentiality concern?

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

**Answer: A**

**Explanation:**

Eavesdropping is listening to a conversation secretly.

**QUESTION 2**

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:**

Access point allows devices to connect to the internet through wireless

Devices (Wireless) -> Access Point -> Router -> Modem.

Access point and Router can be combined as one device which is common these days.

**QUESTION 3**

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:**

Importing data from an existing source can save a lot of time compared to manually entering it.

**QUESTION 4**

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:**

FOREIGN KEY: Unique identifier for a row/record in another database table.

**QUESTION 5**

Which of the following BEST describes an application running on a typical operating system?

- A. Process
- B. Thread
- C. Function
- D. Task

**Answer: A**

**Explanation:**

Process is an instance of a computer program that's being executed (for example when you USE Word or Excel).

**QUESTION 6**

The broadcast signal from a recently installed wireless access point is not as strong as expected. Which of the following actions would BEST improve the signal strength?

- A. Update from 802.11b to 802.11g.
- B. Ensure sources of EMI are removed.
- C. Enable WPA2-Enterprise.
- D. Use WiFi Protected Setup.

**Answer: B**

**Explanation:**

EMI = Electromagnetic interference, is commonly found in industrial environments, and can adversely affect the accuracy of your instrumentation signals.

**QUESTION 7**

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:**

Constraints are used to limit the data type such that, only the required data type is entered in a table, any other data action that violates , this is aborted. This helps to enhance reliability and accuracy of data entered in a table.

**QUESTION 8**

A user is buying a laptop. The user will have a lot of personal and confidential information on the laptop. The user wants to ensure data cannot be accessed by anyone, even if the laptop is stolen. Which of the following should be set up to accomplish this?

- A. Encryption
- B. Compression

- C. Permissions
- D. Auditing

**Answer: A**

**Explanation:**

Encryption is a process by which a message , file or data is encoded such that it is only read by certain people who have permissions.

#### **QUESTION 9**

A systems administrator uses a program that interacts directly with hardware to manage storage, network, and virtual machines. This program is an example of:

- A. a storage area network.
- B. an embedded OS.
- C. network attached storage.
- D. a Type 1 hypervisor.

**Answer: D**

**Explanation:**

Unlike Type 2 hypervisors, type 1 hypervisors interact directly with hardware.

#### **QUESTION 10**

Which of the following is a compiled language?

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

**Answer: C**

**Explanation:**

Java is the best answer of the ones presented, but strictly speaking Java isn't a 'true' compiled language. Java source code is 'compiled' to create Java object code which requires a Java runtime engine to execute the code on the computer. A true compiled language (e.g. C++) is compiled to machine code which will execute directly against the target host platform (e.g. Intel x64).

#### **QUESTION 11**

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:**

Documentation is the last step in troubleshooting methodology.

Step 1. Identify the problem.

Step 2. Establish a theory of probable cause.

Step 3. Test the theory to determine the cause.

- Step 4. Establish a plan of action to resolve the problem and implement the solution.  
Step 5. Verify full system functionality and, if applicable, implement preventive measures.  
Step 6. Document findings, actions, and outcomes.

**QUESTION 12**

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

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

**Answer: A**

**Explanation:**

The goal of nonrepudiation is to make it so that people can't deny that an event took place. In other words, it provides proof that someone or something performed a specific action.

**QUESTION 13**

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:**

Data Manipulation Language (DML) commands allow you to insert or update records and extract information from records for viewing (a query):

INSERT INTO TableName - adds a new row in a table in the database.

UPDATE TableName - changes the value of one or more table columns. This can be used with a WHERE statement to filter the records that will be updated. If no WHERE statement is specified, the command applies to all the records in the table.

DELETE FROM TableName - deletes records from the table. As with UPDATE, this will delete all records unless a WHERE statement is specified.

SELECT - enables you to define a query to retrieve data from a database.

**QUESTION 14**

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:**

While people find decimal easy to use, computers use binary to calculate and process information. Binary is a numbering system where each single digit can express only two values, in the range 0 to 1. The reason binary works well with computers is that these two values can represent the off/on states of the transistors that make up computer memory. Binary can also be referred to as base 2.

**QUESTION 15**

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:**

Storing the data to cloud means we need internet access and the data will be stored on the server.

**QUESTION 16**

Which of the following security concerns is a threat to confidentiality?

- A. Replay attack
- B. Denial of service
- C. Service outage
- D. Dumpster diving

**Answer: D**

**Explanation:**

Attacks on confidentiality can include snooping, eavesdropping, wiretapping, social engineering, and dumpster diving.

**QUESTION 17**

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 means that the programming code used to design the software is freely available. Open source doesn't necessarily mean available for free (although many distributions are); it means that developers are free to make changes to the way the operating system works, so long as they make the changes they have made available in turn. Some software vendors are reluctant to make their source code available to third parties fearing piracy, infringement of copyright, and loss of market position. This means that users of these systems must wait for the vendor to make the modifications they need, if they make them at all. The open source model claims to make improvements to software available more quickly and cost-effectively.

UNIX, Linux, and Android are examples of open source operating systems.

**QUESTION 18**

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:**

In the IT Fundamentals+ (ITF+) exam objectives, permissions are listed under the data definition header. This is probably because when creating a database or table, it's critical to ensure that the right security is implemented.

**QUESTION 19**

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:**

The data does not need to remain persistent. And we know that all data in memory is lost if your computer loses power.

**QUESTION 20**

Which of the following intellectual property concepts BEST represents a legally protected slogan of a business?

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

**Answer: D**

**Explanation:**

Trademark - As copyright is not given to the selection of a name, if a company wants to promote its goods it will normally trademark its name and/or logo. A trademark must be distinctive within the industry in which the company is selling goods and services. An ordinary trademark is indicated by the <sup>TM</sup> symbol. A registered trademark is indicated by ®.

If you re-use or imitate an existing trademark, you are liable to legal action from the owner.

Copyright is automatic legal protection granted to certain types of work indicating that the copyright holder owns the right to control the use of the work, including rights of publication, distribution, or sale. There is no need to apply for copyright or display any copyright notice in order

to be protected by it. The creation of the work ensures copyright protection automatically. Nonetheless, in case of a dispute, you might need to prove when the work was created in order to defend yourself against charges of plagiarism. Plagiarism is the unacknowledged or unauthorized use of someone else's work.

**QUESTION 21**

Which of the following would MOST likely prevent malware sent as compromised file via email from infecting a person's computer?

- A. Email previewing
- B. Patching
- C. Clear browsing cache
- D. Kill process

**Answer: B**

**Explanation:**

"Patching" because malware has been "sent", so patching the target software/system with fixed code can block the effects of malware.

**QUESTION 22**

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:**

A DVI is used for displays. Other types include VGA, DisplayPort (DP) and HDMI.

**QUESTION 23**

Which of the following is MOST likely used to represent international text data?

- A. ASCII
- B. Octal
- C. Hexadecimal
- D. Unicode

**Answer: D**

**Explanation:**

Unicode is the universal character encoding used to process, store and facilitate the interchange of text data in any language.



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