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## WGU Introduction to IT Sample Questions (Q22-Q27):

### NEW QUESTION # 22

Based on the instructions on the package, a frozen pizza should be baked for 18 minutes at 400°F. Which term describes the statement, "The pizza looks done after 16 minutes, so it should be taken out," based on the data- information-knowledge-wisdom DIKW hierarchy?

- A. Data
- **B. Wisdom**
- C. Knowledge
- D. Information

**Answer: B**

Explanation:

In the DIKW hierarchy, wisdom is the level that reflects judgment about what should be done in a specific situation. The package instruction, bake for 18 minutes at 400°F, is information because it is organized and contextualized guidance. The statement, "The pizza looks done after 16 minutes, so it should be taken out," goes beyond repeating the instruction. It uses observation and judgment to decide the best action in context.

This is characteristic of wisdom because it applies experience and situational awareness to choose an appropriate decision, even when it differs from the standard guideline. Knowledge would involve understanding how cooking time can vary based on oven performance, pizza thickness, and placement in the oven, and being able to apply techniques to manage those variables. Wisdom is the decision to act correctly in the moment, balancing the instructions with real evidence, such as doneness appearance, smell, or risk of burning. Therefore, this statement fits wisdom because it selects the right action based on contextual judgment.

### NEW QUESTION # 23

What translates and executes source code into machine language one line at a time?

- **A. Interpreter**
- B. Assembler
- C. Compiler
- D. Operating system

**Answer: A**

Explanation:

An interpreter translates and executes source code one line at a time. In Information Technology, interpretation is a method of program execution where each statement is read, translated into machine-level actions, and executed immediately. This allows programmers to test and debug quickly because errors are often reported at the line where execution stops. Many scripting languages and interactive environments use interpreters, supporting rapid development and flexibility. Unlike a compiler, which translates the entire program into a machine code file that can be executed later, an interpreter generally requires the source code or intermediate representation to be present at runtime. An assembler is used for assembly language and converts mnemonic instructions into machine code, but it is not typically described as executing source code one line at a time. The operating system manages system resources and provides services, but it is not the tool that translates programming language source code into machine language during execution. Therefore, the correct answer for translating and executing code line by line is interpreter.

### NEW QUESTION # 24

Which type of communications media uses light waves to transmit data?

- A. Radio towers
- **B. Fiber optic**
- C. Twisted pair
- D. Coaxial

**Answer: B**

Explanation:

Fiber optic communication uses light waves to transmit data. Here's how it works:

1. Fiber Optic Cable Structure:

- o A fiber optic cable consists of a core made of glass or plastic, surrounded by a cladding layer.
- o The core acts as a light guide, allowing light to travel through it by total internal reflection.
- o The cladding layer ensures that the light remains within the core.

2. Light Propagation:

- o When data needs to be transmitted, a light source (usually a laser or LED) sends pulses of light into the fiber.
- o The light travels down the core, bouncing off the cladding due to total internal reflection.
- o As a result, the light signal remains confined within the core.

3. Advantages of Fiber Optics:

- o High Bandwidth: Fiber optics can transmit large amounts of data quickly.
- o Low Attenuation: Light signals experience minimal loss over long distances.
- o Immune to Electromagnetic Interference: Unlike copper cables, fiber optics are not affected by electromagnetic fields.
- o Secure: It's difficult to tap into fiber optic cables without detection.

4. Applications:

- o Internet Backbone: Fiber optics form the backbone of the global internet, connecting continents.
- o Telecommunications: Used for long-distance phone calls and high-speed internet.
- o Data Centers: Within data centers, fiber optics connect servers and storage devices.
- o Cable TV: Many cable TV networks use fiber optics for signal distribution.

References:

1. Li-Fi - Wikipedia
2. Types of Transmission Media - GeeksforGeeks
3. Welcome, Li-Fi: Technology uses light to transmit data

**NEW QUESTION # 25**

Which software allows the user to easily access the hardware of a computer?

- A. FTP client
- **B. Operating system**
- C. Productivity
- D. Application

**Answer: B**

Explanation:

\*The software that allows the user to easily access the hardware of a computer is the operating system.

\*Explanation: The operating system serves as the interface between hardware, application software, and the user. It manages hardware resources, file systems, processes, and memory.

\*References: 12

Therefore, the correct answer is C. Operating system.

**NEW QUESTION # 26**

Which of the following takes requests from the application and translates it into the needed query for the database?

- A. SQL
- **B. DBMS**
- C. Driver
- D. OLDP

**Answer: B**

Explanation:

1. Database Driver Definition: A database driver is a software component that facilitates communication between an application and a specific DBMS. It acts as an intermediary, allowing the application to send commands, perform queries, and retrieve data from the database in a standardized way.

2. Translation Process: When an application sends a request (such as an SQL query) to the database, the database driver intercepts

it. It then translates the request into a format compatible with the DBMS. This ensures that the database can process the query correctly.

3. Supported Protocols: Different database drivers use specific connectivity protocols, such as JDBC, ODBC, or ADO.NET. These protocols define how the driver communicates with the database.

4. Features of Database Drivers:

o Establishing a Connection: The driver establishes a connection to the database, allowing the application to interact with it.

o Executing Queries: It handles the execution of queries (e.g., SELECT, INSERT, UPDATE) on behalf of the application.

o Fetching Results: The driver retrieves query results and provides them to the application.

o Managing Transactions: It supports transaction management (commit, rollback) to ensure data consistency.

o Parameter Binding: The driver handles parameter binding for prepared statements.

o Error Handling: It manages errors and exceptions related to database interactions.

5. Additional Functionality: Some drivers offer advanced features like connection pooling, data caching, and query optimization to enhance performance and scalability.

6. Examples of Database Drivers:

o JDBC (Java Database Connectivity): Used for Java applications.

o ODBC (Open Database Connectivity): A widely used standard for Windows-based applications.

o ADO.NET: Used in Microsoft .NET applications.

References 6. What Is a Database Driver and How Does It Work? 7. Database Drivers: How Do They Work?

## NEW QUESTION # 27

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