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Google IT Support

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QUESTION: 1

What is the purpose of RAID (Redundant Array of Independent Disks) in computer storage?

Option A : It improves internet speed.

Option B : It enhances graphics performance.

Option C : It provides data redundancy and increases system reliability by combining multiple disks into a single logical unit.

Option D : It boosts CPU processing power.

Correct Answer: C

Explanation/Reference:

RAID is a storage technology that combines multiple disk drives into a single logical unit to provide data redundancy, improve performance, or both, depending on the RAID level. It is used to prevent data loss due to disk drive failures and improve overall system reliability.

QUESTION: 2

Which of the following is not a type of cloud computing service?

Option A : Infrastructure as a Service (IaaS)

Option B : Platform as a Service (PaaS)

Option C : Software as a Service (SaaS)

Option D : Desktop as a Service (DaaS)

Correct Answer: D

Explanation/Reference:

Desktop as a Service (DaaS) is a type of virtualization technology that allows users to access a virtual desktop from any device with an internet connection. It is not a type of cloud computing service.

QUESTION: 3

Which of the following is not a common type of IT support ticket?

- Option A : Hardware issue
- Option B : Password reset
- Option C : Feature request
- Option D : Network issue

Correct Answer: C

Explanation/Reference:

Feature requests are not typically considered IT support tickets. IT support tickets are typically used to report problems or issues with existing IT systems or services. Feature requests are typically submitted to product managers or developers to request new features or functionality.

QUESTION: 4

In Python, what will be the output of the following code?

```
print(list(range(1, 6, 2)))
```

- Option A : [1, 3, 5]
- Option B : [1, 2, 3, 4, 5]
- Option C : [2, 4]
- Option D : [1, 2, 3, 4, 5, 6]

Correct Answer: A

Explanation/Reference:

The range(1, 6, 2) function generates a sequence of numbers starting from 1 up to (but not including) 6 with a step of 2. The list() function converts this sequence into a list, resulting in [1, 3, 5].

QUESTION: 5

Which of the following is the most effective way to manage a group of Linux servers?

- Option A : Use a configuration management tool
Option B : Use a monitoring tool
Option C : Use a provisioning tool
Option D : Use a combination of configuration management, monitoring, and provisioning tools.

Correct Answer: A

Explanation/Reference:

Configuration management tools help to ensure that servers are configured consistently and that changes are made in a controlled manner.

Monitoring tools help to identify potential problems before they cause outages.

Provisioning tools help to quickly and easily deploy new servers.

QUESTION: 6

Which of the following is the most effective way to prepare for a system migration?

- Option A : Develop a comprehensive migration plan that includes all aspects of the migration, such as the scope, timeline, and budget.
Option B : Conduct thorough testing of the migration plan in a staging environment to identify and resolve any potential problems.
Option C : Create a comprehensive backup of all data that will be migrated to ensure that it can be restored in the event of a problem.
Option D : All of the above

Correct Answer: D

Explanation/Reference:

A comprehensive migration plan helps to ensure that all aspects of the migration are considered and that the migration is executed in a timely and orderly manner.

Thorough testing of the migration plan helps to identify and resolve any potential problems before they occur during the live migration.

A comprehensive backup of all data helps to ensure that data can be restored in the event of a problem during the migration.

QUESTION: 7

Which of the following JavaScript frameworks is not used for building user interfaces in single-page applications?

- Option A : React
- Option B : Express
- Option C : Vue.js
- Option D : Angular

Correct Answer: B

Explanation/Reference:

Express is a back-end web application framework for Node.js. It is used for creating web servers and APIs. The user interface of a single-page application is typically built using a front-end JavaScript framework such as React, Angular, or Vue.js.

QUESTION: 8

Which data structure follows the Last In, First Out (LIFO) principle?

- Option A : Queue
- Option B : Stack
- Option C : Linked List
- Option D : Tree

Correct Answer: B

Explanation/Reference:

A stack is a data structure that follows the Last In, First Out (LIFO) principle. In a stack, the last element added is the first one to be removed. It is similar to a stack of plates, where the last plate placed on the stack is the first one to be removed.

QUESTION: 9

Which of the following are the main benefits of using an IDE (Integrated Development Environment)?

- Option A : Single environment for software development
- Option B : Efficient and productive software development
- Option C : High-quality software development
- Option D : Generate documentation for software applications
- Option E : Deploy software applications to production environments

Correct Answer: A,B,C

Explanation/Reference:

A, B and C are correct.

An IDE typically includes a variety of tools and features that are useful for software development, such as a code editor, compiler or interpreter, debugger, and code completion. This allows developers to focus on writing code and debugging their applications, without having to switch between different tools.

IDEs can help developers to write code more efficiently and productively by providing features such as syntax highlighting, code refactoring, and error checking. It can also help developers to debug their applications more efficiently by providing features such as step-through debugging, breakpoints, and watch expressions.

IDEs can help developers to write higher-quality code by providing features such as code linting, code formatting, and static code analysis. It can also help developers to test their applications more effectively by providing integration with unit testing and integration testing frameworks.

QUESTION: 10

What is the purpose of the "try" and "except" blocks in Python?

- Option A : They are used for loop iterations.
- Option B : They define a function in Python.
- Option C : They handle exceptions and allow graceful error handling in code.
- Option D : They are used for file input/output operations.

Correct Answer: C

Explanation/Reference:

The "try" and "except" blocks in Python are used for exception handling. The "try" block contains the code that might raise an exception, and the "except" block contains the code to handle the exception, providing a graceful way to manage errors in the program.

QUESTION: 11

Which term describes the process of converting human-readable web addresses into IP addresses for internet communication?

- Option A : URL
- Option B : DNS
- Option C : HTML
- Option D : HTTP

Correct Answer: B

Explanation/Reference:

DNS (Domain Name System) is a fundamental system in internet communication. It translates human-readable domain names (such as www.example.com) into IP addresses that computers use to locate and communicate with web servers. DNS acts like an address book for the internet, ensuring that users can access websites using easy-to-remember domain names rather than numeric IP addresses.

QUESTION: 12

What is the purpose of the Python "Pandas" library?

- Option A : It is used for creating graphical user interfaces (GUIs) in Python applications.
- Option B : It is used for handling and analyzing structured data, providing data structures like DataFrame.
- Option C : It is used for executing shell commands from Python programs.
- Option D : It is used for numerical and scientific computing in Python.

Correct Answer: B

Explanation/Reference:

The "Pandas" library in Python is widely used for data analysis and manipulation. It provides data structures like DataFrame for efficiently handling structured data, making it an essential tool for tasks such as data cleaning, exploration, and analysis.

QUESTION: 13

Which of the following are common uses of CSS (Cascading Style Sheets) in web development?

- Option A : Defining the layout and positioning of HTML elements.
- Option B : Storing and managing data in a database.
- Option C : Styling the presentation and appearance of web content.
- Option D : Implementing server-side scripting and logic.

Correct Answer: A,C

Explanation/Reference:

A and C are correct.

CSS is commonly used to define the layout, positioning, and spacing of HTML elements on a web page. It allows you to control the arrangement and size of elements, such as text, images, and containers, by specifying properties like margin, padding, and positioning.

One of the primary purposes of CSS is to style the presentation and appearance of web content. This includes setting attributes like color, font size, text alignment, background color, and border styles to make web pages visually appealing and structured.

QUESTION: 14

What is the most effective approach to address a security incident?

- Option A : Ignore it
- Option B : Try to fix it yourself
- Option C : Report it to your supervisor immediately
- Option D : All of the above

Correct Answer: C

Explanation/Reference:

If you experience a security incident, it is important to report it to your supervisor immediately. They will have the expertise to handle the situation and prevent further damage.

QUESTION: 15

Which of the following is not a symptom of a virus infection?

- Option A : Slow computer performance.
- Option B : Frequent pop-up ads.
- Option C : Unexplained changes to system settings.
- Option D : Increased hard drive activity.

Correct Answer: C

Explanation/Reference:

A virus infection can cause a number of symptoms, including slow computer performance, frequent pop-up ads, and increased hard drive activity. However, a virus infection is unlikely to cause unexplained changes to system settings.

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