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item**

1. Which of the following statements most accurately describes what an operating system does? Select all that apply.

1 / 1 point

The operating system is a software that manages everything that goes on in the computer. It reads, writes, and deletes files from the hard drive. It handles how the processes start, how they interact with each other, and how they eventually finish. It manages how memory gets allocated to different processes, how network packets are sent and received, and how each programming can access the different hardware components.

- ☐ Creates the computer's hardware.
- ☒ Reads, writes, and deletes files from a hard drive.

✔ Correct

- ☒ Handles how processes start, interact with each other, and finish.

✔ Correct

- ☒ Manages how memory gets allocated to different processes.

✔ Correct

2. What are some of the common Linux distributions? Select all that apply.

1 / 1 point

- ☒ Debian

✔ Correct

- ☒ Red Hat

✔ Correct

- ☐ Kernel

- ☒ Ubuntu

✔ Correct

3. What command should you type into your computer's terminal to check which Python version is installed?

1 / 1 point

- ☐ python installed -- version
- ☐ py verify -- version
- ☒ python --version
- ☐ py check -- version

✔ Correct

4. Which of the following statements accurately describes the difference between compiled and interpreted languages?

1 / 1 point

- ☐ Interpreted languages are typically used for system programming, while compiled languages are typically used for scripting and web development.
- ☐ Interpreted languages are converted into machine code before execution, while compiled languages are executed line by line by an interpreter.
- ☒ Compiled languages are typically faster than interpreted languages, while interpreted languages are more flexible and easier to develop.
- ☐ Interpreted languages are faster than compiled languages and are less prone to errors.

✓ Correct

5. You are a software developer working on a new project to create a web application. You want to be able to develop your code in one place. You know you will need a code editor, debugger, and terminal. What should you use to create this application?

1 / 1 point

- ☒ An IDE
- ☐ A Text Editor
- ☐ A Linux virtual machine
- ☐ An operating system

✓ Correct

6. You are a software developer working on a new Python project. You are developing a web application. You will be using a variety of Python libraries. You are starting to have concerns about the impact of your project on your system Python environment. You are worried that installing the libraries for your project will conflict with the libraries that you are using for other projects. You have heard about virtual environments, and you are wondering if they might be a solution to your problem. Which of the following statements best describes how virtual environments can help you solve your problem?

1 / 1 point

- ☐ Virtual environments allow you to debug your code more efficiently.
- ☐ Virtual environments allow you to test different versions of Python on your system.
- ☒ Virtual environments allow you to install libraries in a way that is isolated from your system Python environment.
- ☐ Virtual environments allow you to deploy your code to production more easily.

✓ Correct

7. You are a busy marketing manager at a fast-paced startup company. You are constantly sending out emails to promote your company's products and services. However, you are finding that this task is taking up a lot of your time. What could you implement to save time on this task?

1 / 1 point

- ☐ Email templates
- ☐ Java
- ☒ Automation
- ☐ Virtual Environments

✓ Correct

8. Which of the following factors would suggest that a task is a good candidate for automation? Select all that apply.

1 / 1 point

- ☒ The task is repetitive and time consuming.

✓ Correct

- ☐ The task must be performed once a year.
- ☒ The task is error prone and difficult to complete manually.

✓ Correct

- ☐ The task is done quickly.

9. You want to create a Python script that automates system monitoring tasks on your computer. What Python module should you use in your script?

1 / 1 point

- ☐ numpy
- ☒ psutil
- ☐ pandas
- ☐ matplotlib

✓ Correct

10. A banking company is looking to automate one of its internal processes that takes about 50 minutes each week to complete. The automation process will take 12 hours total to complete. How many weeks will it be before the banking company begins to save time on the process?

1 / 1 point

- ☐ 50 weeks
- ☐ 15 weeks
- ☐ 600 days
- ☒ 12 weeks

✓ Correct