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BSIT-301

Device Brand/Model: **Oppo A7**

Operating System (OS): **Android 8.1**

OS Version/Build: **CPH1903EX_11_A.30**

Size of the RAM: **4 GB**

Processor: **Qualcomm SDM450 Octa Core**

Display Quality: **720 x 1520 pixels, 19:9 ratio (~271 ppi density)**

a. Describe the performance of your device. **For me the performance of my device is smooth and good to use because it runs on Android OS v8.1 (Oreo) out of the box. It comes with a Li-Po 4230 mAh, non-removable battery. It features a 6.2 inches IPS display with 720 x 1520 px resolution. The IPS technology is one of the most leading LCD technologies in the world.**

b. In your opinion, does the operating system affect the overall performance of your device? Why or why not? Some **operating systems are optimized for small embedded systems, while others require all they can get and are not satisfied with the low specifications. For example, every operation that uses the operating system requires allocating memory, writing data to cache/disk, creating output, and using pre-prepared libraries in the operating system.**

c. Give five (5) installed applications that greatly affect the processing speed or performance of your device.

Mobile legends, Drive, Game Space, ORoaming, ZArchiever.

d. In your perspective, is there a possible relationship between the processor and the display quality of your device? Rationalize your answer. **No. The processor has no impact on display output as this is entirely handled by the display controller of your integrated or dedicated GPU.**

e. Operating System, RAM, or Processor. Which among the three would you upgrade first and why?

It is not always necessary to upgrade your operating system, but if you feel you need to, please upgrade. For better security, it is recommended to use the latest operating system. It is best to find out what is necessary or if there is a bottleneck in your system.

a. What is the name of the operating system? (2 points) **Ubuntu**

b. What is the latest version of the operating system? (2 points) **Ubuntu 22.04 LTS "Jammy Jellyfish,"**

c. Who developed the operating system? (3 points) **Mark Shuttleworth**

d. Cite your reference(s). (3 points)

https://ubuntu.com/about

https://www.howtogeek.com/351177/what-is-the-latest-version-of-ubuntu/

https://wiki.ubuntu.com/UbuntuArchitecture

e. Describe the internal architecture of the operating system. (5 points) **Ubuntu is a general-purpose, free-as-in-speech, zero-cost operating system based on Debian. It is designed for use on desktops, laptops, servers, and mobile devices. This page sketches the main architectural features of Ubuntu, in order that ongoing development work can be designed in a consistent and elegant fashion.**

f. What makes the operating system unique? Rationalize your answer. (5 points) **Ubuntu is a platform that scales from consumer electronics to the desktop and up into cloud for enterprise computing.**