**DV162\_2\_PAS On Laptop Hardware**

**Possible Answer Sheet**

1. **What does it mean to be modular?**

Ans: Something that can easily be modified, replaced or combined without changing or affecting the overall structure of the system. e.g Batteries and Memories are mostly modular in laptops.

1. **What type of battery technology do we use today?**

Ans: The most dominant battery technology we use today are Lithium Ion(Li-ion) and Lithium Ion Polymer (Li-Po).

1. **What happens each time you charge a battery?**

Ans: When we charge the battery each time it diminishes the capacity just a bit that battery might have.

1. **What is one advantage to using a modular battery configuration?**

Ans: There are several advantages to using a modular battery configuration, but key benefits are increased serviceability and easier maintenance.

1. **True or False? lithium-ion batteries are designed to be 80 percent charged.**

Ans: False.  
( While it's true that frequently charging them to 100% can reduce their lifespan, they are designed to safely operate across a range of charge levels.)

1. **True or False? In lithium-ion batteries, discharging some of the battery and charging it back up again you have to worry about causing a effect on memory or limiting the amount of capacity that battery might have.**

Ans: False.  
( Lithium Ion Batteries not causing an effect on memory or limiting the amount of capacity that battery might have.)

1. **Where are all the programs that are executing in your operating system executing?**

Ans: All of the programs that are executing in your operating system are executing in memory

1. **What does SO-DIMM stand for?**

Ans: Small Outlet Dual Inline Memory Module

1. **Where is SO-DIMM usually used?**

Ans: SO-DIMMs are well-suited for use in laptops and notebooks where space is limited.

1. **Are you able to change/upgrade memory for a device that has it soldered to the motherboard?**

Ans: No, we are unable to change/upgrade memory for a device that has it soldered to the motherboard because they are not modular.

1. **In what form do older laptops have storage in?**

**Ans**: Older laptops typically used 2.5-inch hard disk drives (HDDs).

1. **In what form do new laptops have storage?**

Ans: Newer laptops typically utilize solid-state drives (SSDs).

1. **What is one advantage of SSD?**

Ans: Faster Performance.

1. **What is one way you can migrate from a hard drive to an SSD**

Ans: Cloning, This method involves creating an exact copy of ourHDD, including our operating system, programs, and files, onto the SSD

1. **What are some types of authentications?**

Ans: PINCode, NFC, Face Recognition, Finger Print Authentication.

1. **What is one disadvantage of laptop keyboard?**

Ans: It does not have all the Keys available because of the less space.

1. **What is NFC?**

Ans: NFC stands for Near Field Communication, It is a short-range wireless communication technology that enables devices to establish communication by bringing them within close proximity to each other.

1. **What does NFC allow you to do?**

Ans: NFC allows us to transfer data or perform authentication to the device without physically touching the device.

1. **Is m.2 a modular setup?**

Ans: Yes, M.2 is a modular setup.

1. **M.2 interface on an SSD drive is larger than traditional SATA-connected SSD? True or False?**

Ans: False