

1. a) Notes• **System Call**

- Are interrupt signals sent by software
- Is a programmatic way of a program requesting for service to kernel of operating system
- i.e. Accessing a hard-disk drive
- Transfers control into the OS while simultaneously raising **hardware privilege level**

• **Previlged Instructions**

- Is the instruction that can run only in **kernel mode**
- Attempt at execution in **user mode** → treated as an illegal operation & will not run.

• **Trap**

- Is a special hardware instruction

• **Trap Instruction**

- Is executed when a user wants to invoke a service from the operating system (i.e. reading hard drive)

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• **User Mode**

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• **Kernel Mode**