**Computers and the internet**

**Q.** What is an operating system?

A. A program that controls the execution of application programs and acts as an interface between applications and the computer hardware.

**Q.** Name some services provided by the operating system?

A. file management, process management, memory management and multiprocessor management

**Q.** What are the main components of a hard drive?

A. Correct answer: Platters, arm and heads

-Platters, disks, and pins

-Pins, arm and disks

-Arm, heads and pins

**Q**. What are the two types of memory in an SSD?

A. Buffer memory and flash memory

**Q.** What is dynamic wear-levelling?

A. correct answer: Writing new data to the least recently-used block

-Periodically moving existing data to the least recently used block

-Moving cold data

- Periodically moving all data by one memory location

**Q.** How are memory addresses mapped in a fully-associative cache?

A. correct answer: To the least recently used cache address

-To exactly one cache address

-To exactly one cache set, and to the least-recently-used place in that set

-To the first memory location in a cache set

**Q.** What is a write hit?

A. When the address we want to address is present in the cache

**Q**. What does a load instruction do?

A. correct answer: Transfers a word from memory to a register

-Transfers a word from register to memory

-Transfers a data set from register to memory

-Transfers a data location from memory to a register

**Q.** What is the purpose of the control unit?

A. Fetches instructions from memory, as determined by the program count register

**Q.** How is an IP address divided?

A. correct answer: A network prefix and a host suffix

-Network prefix and a location suffix

-Host prefix and network suffix

-Host prefix and date suffix