



Tutorial No. 2

1. Eight Bits make up a
 - a. **byte**
 - b. megabyte
 - c. kilobyte
 - d. None
2. What kind of memory is both static and non -volatile?
 - a. RAM
 - b. **ROM**
 - c. BIOS
 - d. CACHE
3. ALU and Control Unit jointly known as
 - a. RAM
 - b. ROM
 - c. **CPU**
 - d. PC
4. The CPU and memory are located on the :
 - a. expansion board
 - b. **motherboard**
 - c. storage device
 - d. output device
5. CACHE memory holds:
 - a. **frequently used data and instructions**
 - b. data only
 - c. instructions only
 - d. addresses only
6. First generation computers used languages.
 - a. **machine**
 - b. C++
 - c. Both '1' and '2'
 - d. high level
7. **BIOS** is the program a computer's microprocessor uses to start the computer system after it is powered on.
8. Define an instruction cycle. **It is the cycle taken by the SPU from when the computer is turned on to when it is closed**
(The steps are:)
 - 1-Fetch
 - 2-Decode
 - 3-execute
 - 4-store
9. Name the four steps involved in an instruction cycle.
 - 1-Fetch
 - 2-Decode
 - 3-execute
 - 4-store
10. The number of instructions executed in a second by the CPU, is measured in **1 HZ**.
11. Define a system bus. **They are electrical pathways that allow information to pass from memory to the SPU**
12. A system bus comprises of three kinds of buses **data bus**, **address bus** and **control bus**.
13. Define control bus, address bus and data bus.
14. The size of **address** bus determines the maximum number of memory locations the computer can address.
15. A memory with 8-bit data bus and 8 bit address bus can store a maximum of **256** bytes
16. Where is the expansion card fixed on the motherboard?
17. List the factors that affect the performance of the computer.
 - 1-register
 - 2-ram
 - 3-system clock
 - 4-bus data
 - 5-cache memory
18. List five ports available on the backside of the computer to connect the devices.
 - 1-serial port
 - 2-usb part
 - 3-vga
 - 4-ethernet port
 - 5-Parallel Port
19. What are BIOS and POST? **It is a set of commands through which SPU starts the computer**
20. What is expansion slot and list five expansion slots available in the computer.
 - 1-ISA slot
 - 2-PCI slot
 - 3-AGP slot
 - 4-pciexpress slot
 - 5-pc card slot