Computer Architecture (MCQ)

1. Which functional component of the computer system is responsible for the computing?

a) RAM
b) CPU
c) Input
d) Both a and b

Answer: (b)

2. The three main parts of central processing unit (CPU processor) is

a) ALU, Control Unit, and Registers
b) ALU, Control Unit, and RAM
c) Cache, ALU, and RAM
d) Control Unit, RAM, and Cache

Answer: (a)

3. The main function of the central processing unit is to

a) carry out program instructions
b) process data and information
c) control all external and internal devices
d) perform arithmetic and logical operations
e) All of the above

Answer: (e)

4. The CPU chip used in the computer system is made up of

a) Gold
b) Copper
c) Silicon
d) Silver

Answer: (c)

5. Which language can be understood directly by CPU?

a) C
b) Machine
c) Java
d) All

Answer: (b)

6. Which unit is used to measure the CPU's processing power?

a) GIPS
b) LIPS
c) MIPS
d) Nanoseconds

Answer: (c)

7. Which unit is used to measure the CPU's speed of a computer?

a) IPS
b) GPS
c) Clock speed
d) IPC

Answer: (a)

8. The performance of CPU processor can be measured by

a) IPS
b) MIPS
c) clock speed
d) access time

Answer: (c)

9. The clock rate of CPU is measured in which unit?

a) Milliseconds
b) Microhertz
c) Nanoseconds
d) MHz or GHz

Answer: (d)

10. Which of the following is not the component of CPU?

a) Storage unit
b) Program unit
c) Arithmetic Logic Unit
d) Control unit

Answer: (b)

11. The CPU is an example of

a) Software
b) Peripheral device
c) Hardware
d) Input and Output device

Answer: (c)

12. In which part of computer system actual execution of instructions takes place during processing operations?

a) ALU
b) Control Unit
c) RAM
d) Registers

Answer: (a)

13. Which unit of CPU perform arithmetic operations such as addition, subtraction, multiplication, division over data received from memory and compare numbers (greater than, equal to, or less than)?

a) ALU
b) Control Unit
c) ALU and Control Unit
d) Input/Output Unit

Answer: (a)

14. The function of Control Unit in the CPU is

a) To decode program instructions
b) to transfer data to primary storage
c) to store program instructions
d) to perform arithmetic and logical operations

Answer: (a)

15. What is the function of logical unit in the CPU of a computer?

a) To generate a result
b) To compare data
c) To control the flow of information
d) Both a and b

Answer: (b)

16. Which of the following is used by ALU to store intermediate results?

a) Registers
b) Heap memory
c) Stack memory
d) Accumulator

Answer: (d)

17. Which of the following is/are special-purpose registers used by CPU?

a) Program counter (PC)
b) Stack pointer (SP)
c) Instruction register
d) Memory address register
e) All of the above

Answer: (e)

18. Which of the following special-purpose register keeps track of the address of the instruction which is to be executed next?

a) Stack pointer
b) Program counter
c) ALU
d) Both b and c

Answer: (b)

19. What is a "register"?

a) Digital circuit
b) Combinational circuit
c) Arithmetic circuit
d) Sequential circuit

Answer: (d)

20. Which of the following is used to overcome the difference in data transfer speeds of various devices?

a) Speed enhancing circuit
b) Bridge circuit
c) Buffer register
d) Combinational circuit

Answer: (c)