

COURSE: COMPUTER SKILLS/ APPLICATIONS

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Ans # 1 (a)

The characteristics of computers that have made them so powerful and universally useful are speed, accuracy, diligence, versatility and storage capacity. Let us discuss them briefly. Computer work that at an incredible speed. A powerful computer is capable of performing about 3-4 million simple instructions per second.

Ans # 1 (b)

Characteristics of fourth generation computer

- 1) The fourth generation of computers have microprocessor-based systems. It uses vlsi (very large scale integrated) circuits.
- 2) They are the cheapest among all the computer generation.
- 3) The speed, accuracy and reliability of the computers were improved in fourth generation computers.
- 4) Many high-level languages were developed in the fourth generation such as COBOL, FORTRAN, and basic Pascal and C language.

Ans # 2 (a)

An arithmetic logic unit (ALU) is a digital circuit used to perform arithmetic and logic operations.it represent the fundamental building block of the central processing unit (CPU) of a computer. Modern CPU s contain very powerful and complex ALUs. In addition to AIUs, modern CPUs contain a control unit (CU).

Ans # 2 (b)

Ram (Random Access memory)

Is the hardware in a computing device where the operation system (OS), application programs and data in current use are kept so they can be quickly reached by the device,s processor.

Ans # 3:

Computer System is comprised of the five classical components (input, output, processor, memory, and data path). The processor is divided into an arithmetic logic unit (ALU) and control unit, a method of organization that persists to the present. Within the processor, the ALU data path mediates data transfer for computation. The registers are fast memory modules from/to which data can be read/written to support streaming computation, within the ALU, an accumulator supports efficient addition or incrementation of values corresponding to variables such as loop indices. Details of some of the basic components of computer system is as under:

1. Input unit
2. Output unit
3. Storage unit
4. Central processing unit (CPU)
5. Arithmetic and logic unit(ALU)
6. Control unit