

NAME	WAQAR KHAN
ID	14650
DEPERTMENT	(BS. MICROBIOLOGY)
COURSE	COMPUTER APPLICATION
SEMESTER	4TH
INSTRUCTOR	ZAKIR RAHIM
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Q No. 1 (a) in your opinion what are the 3 most important characteristics of computer, explain each characteristics.?

Ans: They are explain in the 3 most important characteristics in computer in the following.

1) Speed 2) I Q 3) ACCURACY

SPEED

ANS : They computer can perform data processing jobs very fast , usually measured in microsecond (10^{-6}) non second (10^{-9})and pico second (10^{-12}).

In a general, speed is the overall time something's takes to complete.

For example: If a computer is fast it open program in less than a few seconds depending on the size of the program. Often many fast computer can open smaller programs is less than a second.

2)I Q.

ANS : A computer does only what is programmed to do. It cannot takes own decisions this regard.

An intelligence quotient is a total score derived from a set of standardized tests or sub tests designed to assess human intelligence.

Computer can be smarter than human. Today computer can learn faster than human.

For example: Watson can read and remember all the research on cancer no human could say.

3) ACCURACY

ANS: The computer is consistently high and the degree of its accuracy depends upon its design.

Computer errors caused due to incorrect input data or unreliable programs are often referred to as Garbage-in Garbage-out.

B) write a key characteristics of fourth generation of computer?

Ans:

1) They are the characteristic of the key in the fourth generation of computer.

2) The small, affordable, reliable and easy to use PCs. More power full and reliable main frame system and supercomputers.

3) The totally general purpose machine of the computer generation.

4) Easier to produce commercially to the computer generation.

5)Easier to upgrade

6)Rapid software development possible.

QNO 2: A) DISCUS THE IMPORTANCE OF ARITHMETIC LOGIC UNIT AND CONTROL UNIT OF COMPUTER SYSTEMS?

AND :

Importance of arithmetic logic unit:

An arithmetic logic unit (ALU) is a digital circuit used to perform arithmetic and logic unit operations.

It represents fundamental building block of the central processing unit (CPU) of a computer. Modern CPUs contain very powerful and complex ALUs. In addition to ALUs , modern CPUs contain a control unit (CU).

An arithmetic unit, or ALU, enables computer to perform mathematical operations on binary numbers. They can be found at the heart of every digital computer and are one of the most important parts of a CPU (central processing unit).

IMPORTANCE OF CONTROL UNIT:

It is very important to have control unit in a computer system. Without a control unit its like a body without a

brain. Control unit controls all the parts of the computer it processes all the instructions given by us and gives us an output. Control unit of a computer is a CPU.

I believe when you are talking about importance of CU that means you are pretty well about CPU. CU control unit is an important part of CPU as it takes care about all you request on the operating system and it engages the ALU if instructions needs arithmetic/ logical kind of processing.

Example: *CU waits for your interaction on the os , if you click on any icons on the screen, CU will take care of it about what to do with that request.*

Q NO 2.(B) WRITE A DETAILED NOTE ON IMPORTANCE OF RAM?

ANS; *The importance of ram IN THE FOLLOWING*

THE computer random access memory is one of the most important component in determining your systems performance . RAM gives application a place to store and access data on a shorts –term basis. It store the information your computer is actively using so that it can be accessed quickly .

RAM is the memory available for the operating system , programs and processes to use when the computer is running.

RAM requires a flow of electricity to retain data.

RAM is a type of chip used in computer and other devices .it allows us to store and run programs on the computer. It is one of the fastest memories in our computer system.

If you are using internet browser on your computer pages you will see on the screen and that have been thus the name of ram.

For example:

If you are working on Microsoft world the text you are typing and formatting is currently stored in the RAM chip until you do not save it on your system permanently .

If power goes out of your computer , you lose everything that was in ram.

Q N 3:WRITE A DETAILED NOTE ON BASIC ORGANIZATION OF COMPUTER SYSTEM ALONG WITH THE FUNCTION OF EACH PART

INPUT UNIT

An input unit of a computer system performs the following functions:

- 1. It accept (or reads) instructions and data from outside world*

- 2. It converts these instructions and data in computer acceptable form*
- 3. It supplies the converted instructions and data to the computer system for further processing*

OUTPUT UNIT

An output unit of a computer system performs the following functions:

- 1. It accept the results produced by the computer, which are in coded form and hence, cannot be easily understood by us*
- 2. It converts these codes result to human acceptable form*
- 3. It supplies the converted results to outside world.*

STORAGE UNIT

The storage unit of a computer system holds the following:

- 1. Data and instructions required for processing*
- 2. Intermediate results of processing*
- 3. Final results of processing, before they are released to an output device*

4. TWO TYPES OF STORAGES

PRIMARY STORAGES

Used to hold running program instruction.

Used to hold data , intermediate result , and result of ongoing processing of job...

Fast in operation .

Small capacity.

Expensive volatile.

SECONDARY STORAGES

Used to hold stored program instructions..

Used to hold data and information of stored jobs

Slower than primary storage .

Large capacity .

Lot cheaper that primary storage .

Retains data even without power.

ARITIMETIC LOGIC UNIT

An aritimetic logic unit is a digital circuit used to perform aritimetic and logic operation .it represent the fundamental building block of the central processing unit of a computer .

Modern of CPUS contains very powerful and complex ALUS. in addition to ALUs modern CPUs contain a control unit.

CONTORL UNITS

The control unit of the central processing unit regulates and integrates the operation of the computer .

Its selects and retrieves instruction from the memory in proper sequence and interprets them so as to activates the other functional element of the system at the appropriate moment.

CENTRAL PROCESSING UNIT

It is the brain of a computer system.

It is a responsible for controlling the operation of all other unit of a computer system.

