NED University of Engineering & Technology

Online Fall Semester Examinations - 2021

Seat No. _CT- 20032_ Batch _2020_

Course Title _Fundamentals of IT_ Course Code _CT-174_

Enrol No. _Provisionally Allowed_ Date _15-02-2021_

Roll No. _CT-032_

PLEASE READ THESE INSTRUCTIONS CAREFULLY

1) Download and print this cover page (separately for each exam).

2) Fill the above mentioned particulars before attempting the questions.

3) Students are not allowed to use red or green ink. Solve the questions on A4 size paper using blue or black pen ONLY.

Question No	Award	
	First Examiner/ Internal	Second External Examiner/ ERC
1.		
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Total in figures		
Total in words		

First / Internal Examiner's Signature

Second / External Examiner's / ERC Signature

Q.1 (a):-

Impact Printers:-

Impact printers work like a typewriter. They print by making physical contact of ribbon against paper and may produce carbon copies. They produce much noise and are called noisy printers. For example:

i) Daisy-wheel Printers
ii) Dot-Matrix Printers.
iii) Chain Printers.

i) Dot-Matrix Printers:

Dot-Matrix printers are fprinters that write using one or two columns of tiny dots on a print head. The dot hammer moving serially across the paper strikes an inked ribbon and creates image on paper.

ii) Daisy Wheel:

It uses a mechanism that uses any kind of hub (wheel) having a set of spokes at the margin of

the hub. When the wheel is turned and the required character is aligned to the print hammer, the character is then struck into a ribbon and onto a paper with the hammer.

iii) Chain Printers:

It uses a mechanism, that uses character typefaces linked together in a chain. This printer is not commonly found around microcomputers, because they are very expensive.

Non-Impact Printers:

Non-Impact printers are the printers that print without making contact with the paper. They are faster and noiseless printers. They include.

i) Ink-Jet Printers:

Ink-jet is a printer mechanism that sprays one a more color of ink at high speed onto the paper and produce high-quality printing. their cost is low.

i) Laser Printer :

A laser printer is a printer that uses the electrophotographic method used in a copy machine. The printer uses a laser beam light source to create images on a photographic drum. then the images on the drum are treated with a magnetically charged toner and then are transferred onto a paper.
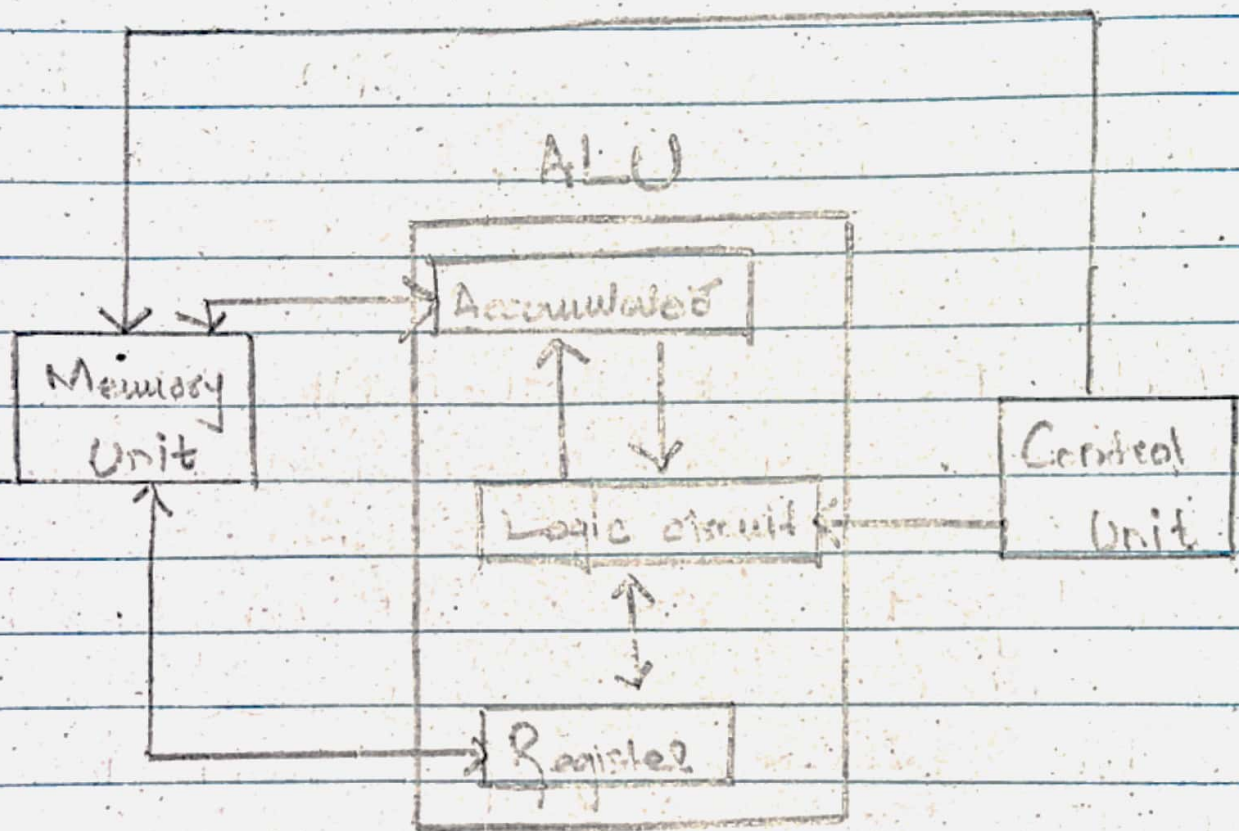
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Q1 (b):

Arithmetic and Logic Unit:

- It is the part of CPU which performs both tasks arithmetic & logical on data.

- Arithmetic task includes addition, subtraction, multiplication and division.

- In logical operations, ALU compares the numerical data as well as alphabatic data. For example, to check whether first number is greater than second. Similarly, to compare alphabatic data such as to determine whether one number is the same as or different from another.

- ALU contains different types of

registers such as address registors, accumulator registers, instruction registor, and program counters which is temporary storage area.

ALU

Memory Unit

Accumulator

Logic circuit

Register

Control Unit

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