Term Test: #01

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Ans, to the question no :1

Instruction is a set of a group of command for a epu. In other words, instruction set provides command to the processor, to tell what it needs to do.

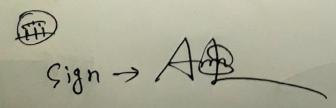
IsA and Miseroarehiteeture:

ISA define as Instruction Set Architecture.

Basically, ISA describes the design of a computer in terms of the basis operation it must support It is only concerned with the set or collection of basic operation.

For Example: AMD, X86 etc.

on the other hand. A microarchitecture is a hardware implementation of an ISA (Instruction Set Architecture). Like, xxy ISA is implemented by various microarchitecture; including those designed by Intel and AMD.



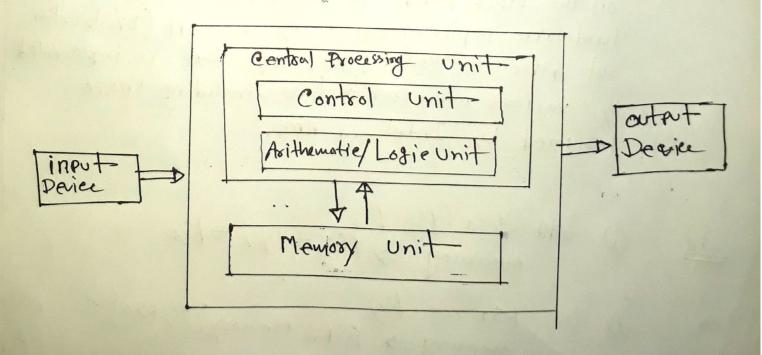
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- (ii) and i \$51, \$52,10 meaning -> \$51=\$52\$10
- (w) stu \$51, \$52, \$53 meaning -> if (\$52 < \$53) \$51=1; else \$51=0
- (bne \$51,\$52,25 meaning ~ it (\$51! = \$52) go to pe+9+100

Ans. to the question no: 2

The following diagram for Von Neumann Architectures



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- 6) Five classic components of computer system
 - 1. Input
 - 2. Output
 - 3. Memory
 - 9. Control
 - 5. Dutapath
- The term Stored Bogramme Control concepts

 refers to the storage of instruction in

 eomputer memory to enable it to perform

 a variety of toskn in sequence or

 intermittently.
- Moore's low; Moore's low is a term
 used to refer to the observation mode by
 Godon Moore in par that the number
 of transistors in a dense integrated
 eiremit (Ie) doubles about every two years.

Ambahl's Laws Ambhal's low states that in parallelization; if p is the proportion of a system or programme that earn be made parallel, and I-p is the proportion that remains serial.

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Ansoto the question noo3

Sequence 2 executer 4+2+9= 10 instruction Sequence 2 rexecutes 6+3+2= 11 instruction

Sequence 1: cpu eloek eyele = (4xi) + (2x2) + (4x3)= 20 eyeles

Sequence 2' epu clock eyele = (0x1) + (3x2) + (2x3) = 18 eyelen

Now, sequence 2 executes forter than sequence 1

sian - Ad

Por-D