g) what do you mean by the write-back policy? => Write-through: epu writer are shacked chacked, but also written to main memory immidiatly.

memory always holds current contain content. > simple, slow, wastes band width. write-backit cou writes are cached, but not written to main memory untill use replace the block . / OR The physical page is written back to the hard drive only when it is evicated from physical memory. 10) what is Rise pipeline? => RISE = Reduced 9 Instruction Set Computers. If was introduced to execute as fast as one instruction per clock eyele. This Rise pipeline helps to simplify the computer's Architecture design. 11) What size of MUX's are needed?

The size of each Muxs must be K:1.
Where K is the number of registers.

Bus Operation in COA? A bus is high-speed internal Connection. Buses are used to send control signal, and data between the processor and other Components. There are total 3 bus bus system in con-Dota Bus: The Lata bus allows & data to flow between devices. Address Bus: The address bus tells devices Where the deuta should go or is coming from. control Basi- coordinates activity between various devices to prevent data collisions. 2) General purpose Register? registers that are present in epu which is used for either memory address or data when-- ever needed. Example: storing current negister content when there is an interruption. 3) what is Stack Organization in COA? > The LIFO wist is another name of stack. It is the course most crucial features. It saves for information so that the last element gived as retrived first.

A memory space with an address register is called a stack. 4) what is meant by addressing made? An addressing mode specifies how to calculate the effective monory address of an operand by using information held in registers and/or constants contained within a machine instruction or else-5) What is Opcode and Operand? => The opcode is the instruction that is executed by the epu and the operand is the data or memory location used to execute that Instruction 6) How many type of Addressing mode? => 1) Immediate @ Direct M Indirect @ Register Addressing mode @ Register Indirect Addressing mode @ Relative Addressing modes (Fir) Index add rossing mode, VIII) Base Register. 1) Immediate Addressing Mode's The Simplest from of addressing mode is Immediate Addressing mode. In this mode the operand value is present in the Instruction | Operand = A

(1) Direct Addressing mode: A very simple from of addressing is direct addressing mode In this made the address field contains the Effective address of the operand. @ Indirect Addressing mode: - An Indirect address is an absolute, relative or symbolic address of a location that contains another address. EA = (A) EA = (.....(A)) Register Address: It is similer to direct addressing mode. The Only difference is that the address will refers to a main register grather than a main memory address. 1 Register Indirect Addressing mode: (1) It is similer to indirect adversing mode. The only difference is addrew fill of the istruction refers to a epu register instead of memory Location. EA=(R)

operand is obtain by: EA = content of program counter +

Address part of Instruction operand is obtain by; EA = Content of Index Register +
Address part of Instruction. VIII Bose Register! EA = content of the base register + Andrews part of the instruction. combinational circuit Sequential circuit 1) Depends upon the present input Only 1) Depends upon present input as well as past input. us It is very fast in operation. 1) It is comparitively slow In operation. path between butput and Irput. mi There is foodback path available between input Output and Input my The operation is very simple. in The operation is very complex. y It content no memory element of 24 content memory element.

floodart? multiplication algorithms and 9) what is the IEEE standard for floating point Numbers ? The IEEE-754 Statement Standard describes floating-point formato, a way to represent real numbers in hardware. >> IEEE floating point numbers have three bousie Components: the sign, the exponent, and the mantissa * TESTO Floating point Arithmetic. 10) what are the four stages in Instruction eyele? => 1) Fetch instruction from memory -> Decode the instruction -> (11) Read and effective address from memory -> @ Execute the instruction. RISC & Simple Instruction. i) complex Instruction us main focuse is softwark if main focus is Hardware. my Single clock eyele. my muttiple clock eyele by few addressing mode. 1 2 - 10 addressing mode y) Fixed length Instruction y variable length

Distribution