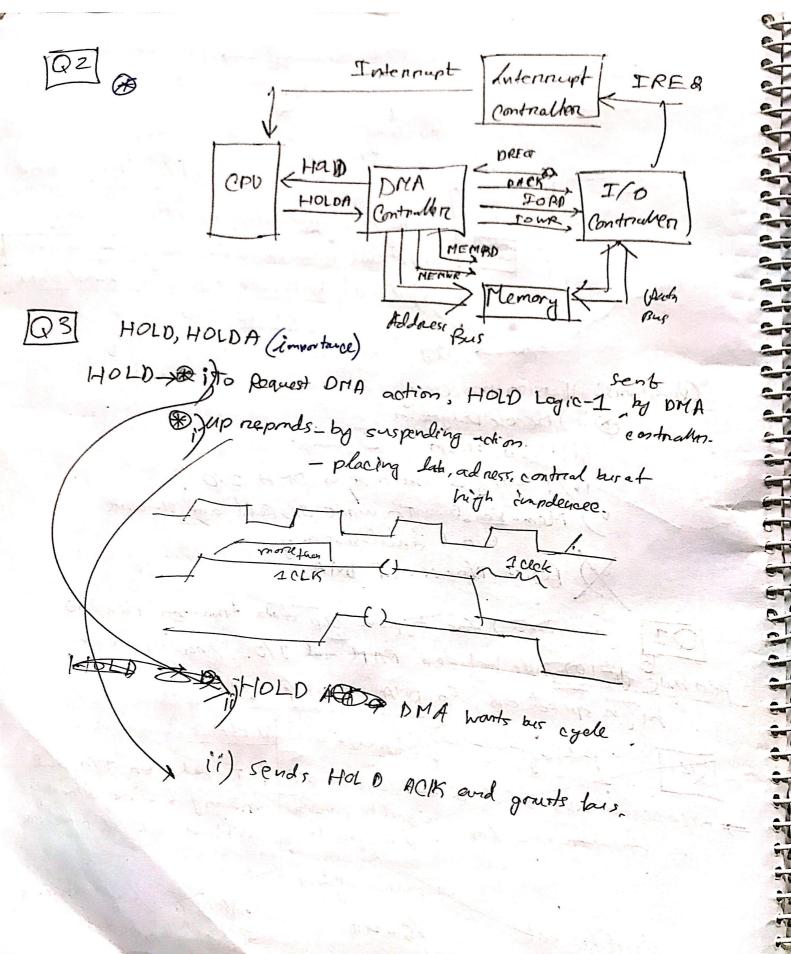
Programmed - Personed by Lee-11 Pelling Catenaux Sainen DMA - i) Overhead to processor (frees the year our of (i) Person Co-ordinated by DMA constalen Q1 | iii) Awids blan read when many large must dath iv) Avoids bottleneck of boing to chamol data through processon Cons - Amp is unable touse buses temporarily. Questions: i) Forster processing (improvements of DMA) (1) Block Diagnam iii) HOLD/HCLA iv) Palling us Entennest us DNA I/O V) Mem-Rail, I/O Write I/O Radd and M-Write Regist Names of MA [Q1] (continued) for typical up data transfer require pen byte (5-10) us between RA-M and I/O. Inadequate for high speed ars. For DMA 2 us /pen byte. Dar Pulling Interword + = processor asks Italiance + I/o duice sends D. T between 1/0 and signal to processing to transfer in a Loop. memory is love directly if it anote to wither ceid of processos. transfer, Otheroke privasa uildrift · Rufficient · Best for large wherhs · Botten of data



Q41 Dis alu Advantages - Slavest (Speed)
- Wasted larrol Pulling - Fasted Response (Efficiency) (Efficient) - Simplest H/W - Morre efficient use of processor time. - Delay in narpore time Motennurt due to rinter next Cinterrapt Ratay) - Overdhead due to intermet processing (context switching) -Increased cost and complexity - Made officered - Need DMAR Device DMA furtert DT Rate - Highest Cost not cordenty - Overhead to Processen, most efficient Points to consider y Response Time K/W B Efficiency -> Pontent Switching

B Cost and simplicity World in this pen: Pros: (Jons

Q5) Mem-Road + 1/0 white Fetches the data from memory
and writes in the I/O. (creek vid)
Lec-12 - Servial, high speed notwork connect PC to I/O devices Speed-billions of Lits/second (Gibps) Interemetin of 126 livices only b) Inti band - serial amos bus that can do carry multiple channel of data -> Network of high speeds links and switches. CALL SOULD SERVICE A Experience & Equipment & Equipment Cheapers to floorest South only No line of Signt History on Line of Red Sight Long distance Short distance Frequence tropping, Diade emits infrared signal communicate while constartly changing transmission frequency lufnared transistor defects signal.

Isochronous is a special type of synchronous

Allows Jitter, periodic internal varies

In synchronous commune, the internal is fixed.

High transfer rate, the internal is reduced.

Low transfer rate " " increased.