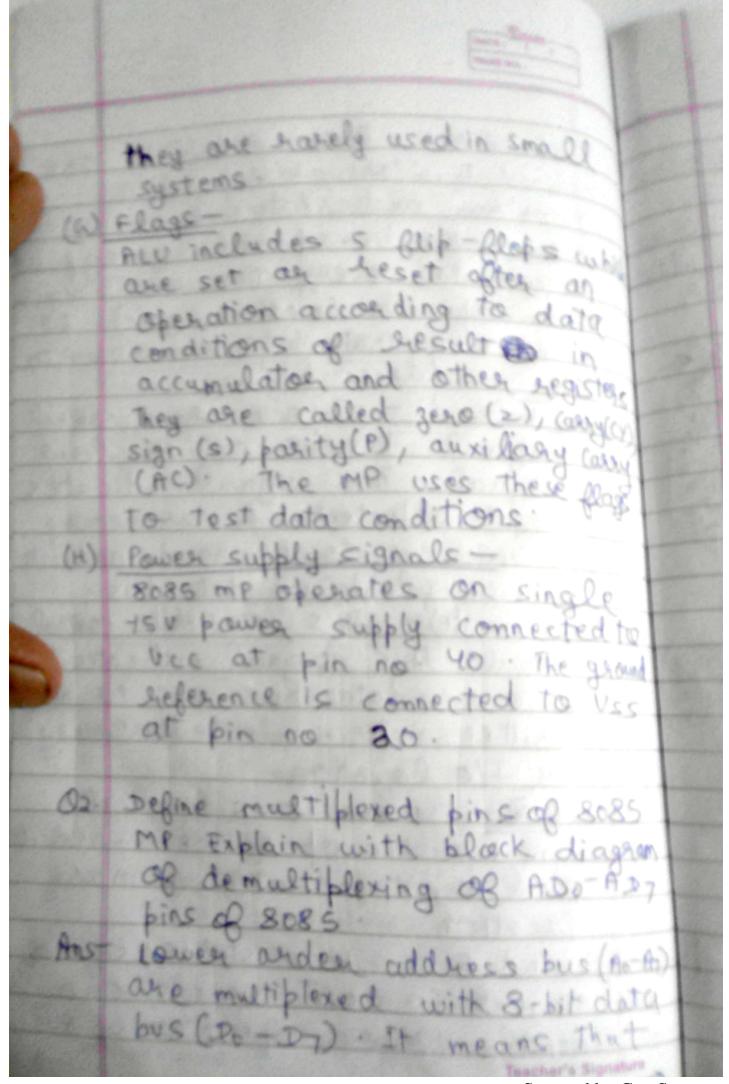
Assign ment -1 (unit-1 and 2) at sefine following in 8085 microp. (A) Program counter (B) Stack Painter HOLD and HLDA PIN Instaution Registers cornel and status pins Flags PSW (A) Perogram Counter-MP usos Program counter register to sequence execution ap instanctions. The function of baggeram counter is to point to memory address becom which next lyte is to be Retched when a byte is being fetched, PC is incremented by one to paint to next memory locations (B) Stack Painteg-Stack Pointer is also a 16-bit agrista used as memory pointer. It points to memory location in R/W memory,

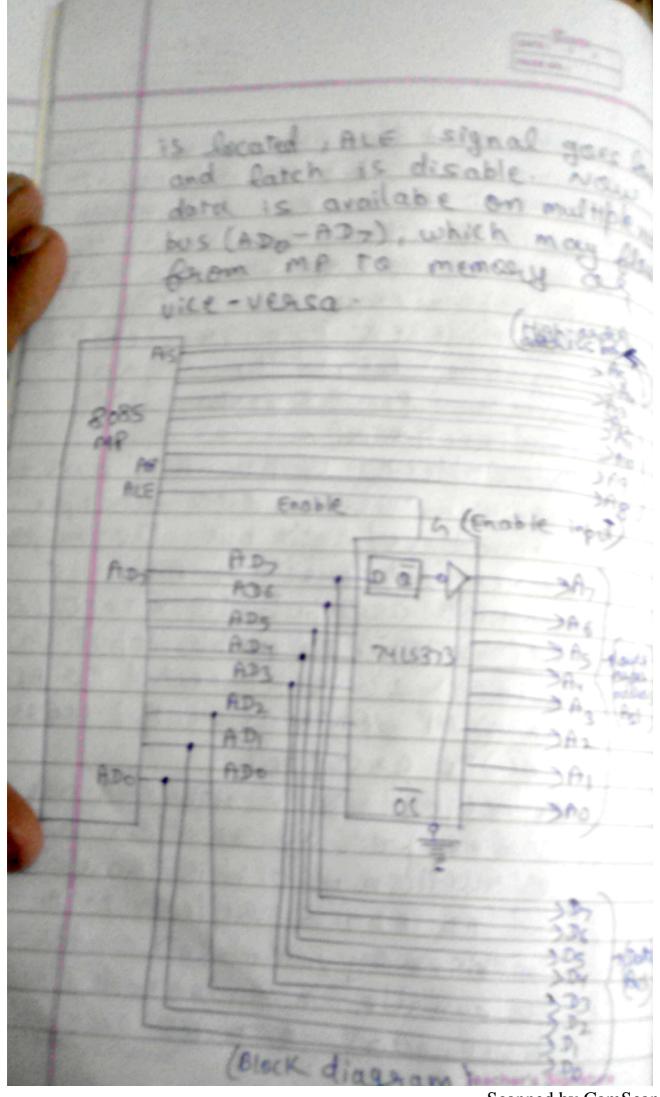
called the stack. The beginning of stack is defined by lossy pointer It is segister while stores address of top ap (C) MOLD and HLDA PIN-HOLD signal in dicates that peripheral such as DMA (orthole) and data buses. HLDA signal acknolledges the HOLD REQUEST IT is active high signal. (2) Instruction Register It is an 8-bit aggister when an instruction is betched from memory then it is stored in The instruction register. (E) General purpose segisters -8085 mp has 6 general-purpose Register to stone 8-bit data These are identified as B, G) E, H, L. They can be found combined as register pairs - BC DE, HL to pealagm 16-bit a

oberations These registers ane used to store on copy data (1) control and status Pins-DALE- This is positive gaingbul generated every time 8085 begins an operation (machine cycle). It indicates that bits on ADO-AD are address bits RD (Read) - This is head control signal. This is active land signal. This signal indicates that selected 210 on memory device is to be great and date are available on data bus iii) WR (write) - This is write control Signal. This signal indicates that data on data bus are to be weitten into selected memory an I/o location IO/m - when it is high, it indicates 110 opegation when it is low, it indicates memory lacation. v) si and so - These status signals, similar TO IO/m signals, car identify various operations, but



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data and address are sent on some line but at difficuent instant of time . Thi configuration is done to geduce no of pins on 8085 micropa aces son I multiplexed bus is denoted by ADO - ADT. The signal Pines A.D. - A.D. To ase bidiscectional. Demultiplexing of ADO - AD, bins-ALE signal is used to demultiplex the address / data bus. The multiplend address/data bus (ADO-ADO) is connected as input to 8-bit lach I ((THES373). The enable input (4) of latch I (is connected to ALE bin of MP whereas output control (oc) is grounded. ALE signal gaes high during earlier part of execution of instruction, latch is transparent and AD-AD7 is seflected to Ao In this way, complete address is available in address to the bus (A. - As). Ontered



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