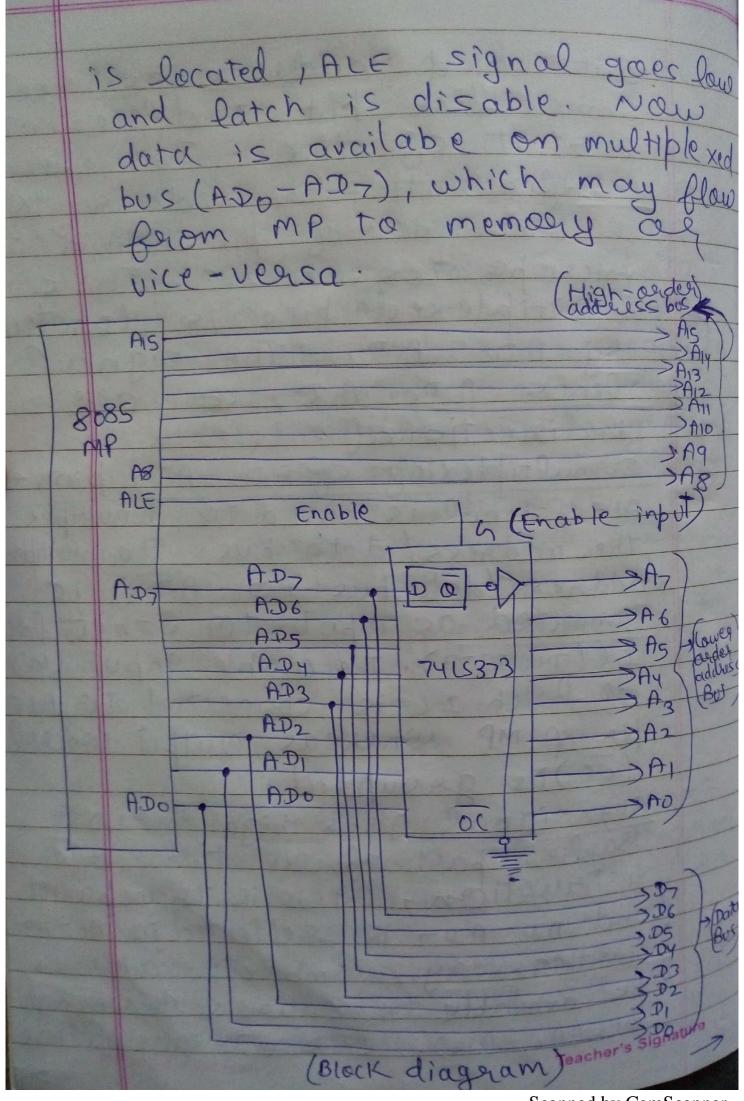
Assignment -(unit-land 2) at Define fallowing in 8085 microp. (A) Program Counter (B) Stack Painter (1) HOLD and HLDA PIN #(2) Instruction Registers (F) General Purpose Purog. registers (F) control and status pins (W) Flags (H) PSW Ans (A) Peragram Counter-MP 4505 Perogram counter register instructions. The function of perogeram counter is to paint to memory address Brom which next byte is to be Betched when a byte is being fetched, PC is in wemented by one to point to next memory location. (B) Stack Painter-Stack Pointer is also a 16-bit register used as memory pointer. It points to memany location in R/W memory

	called the stack. The beginning
	a 16-bit address in 3 ladin
7	pointer. It is segisten which stores address of top of
, ,	1000
(4)	MOLD and HLDA PIN-
1000	Hold signal in dicates that  peripheral such as DMA controller is requesting is
1	050 00000000000000000000000000000000000
	0000
	HLDA Signal OCKhalada +1.
1000000	Collection of the contribution
(D)	high signal.
	Instruction Register-
- History	It is an 8-bit register when an instruction is Ortaled
State of	instruction is Betched from memory then it is stored in the instruction is
(5)	The state of the s
(E)	PULL DOS D XPC CTOOL
	196
	10 57000 8-61 000
	These are identified as Bigg E, H, L. They can be form
	ac acictos miss
	TO LOO DOOD IN - hit
	Teacher's Signature

operations. These registers are ised to store on copy data. DALE- This is positive going pulse generated every time 8085 begins an operation (machine cycle). It indicates that bits on ADO-ADO are address bits ii) RD (Read) - This is read control signal. This is active law signal. This signal indicates that selected Ilo on memory device is to be read and data 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 on I/o location iv) IO/m - when it is high, it indicates I/o opegation when it is low, it indicates memory la cation. u) Si and so - These status signals, can similar To Iolim signals, can identify various operations, but

they are rarely used in small systems. (a) flags -ALU includes 5 flit flots which are set are reset after an operation according to data conditions of result on in accumulator and other registers They are called zero (2), (ary(cx) sign (s), parity (P), auxiliary carry (AC). The MP uses there plays to test data conditions (H) Power supply signals -8085 mp operates on single 15 v power supply connected to uce at pin no 40. The ground reference is connected to vss at pin no 20. Or Define multiplexed pins of 8085 MP. Explain with black diagram of demultiplexing of ADO-ADT pins of 8085. Anst Lower order address bus (Ao-A) are multiplexed with 8-bit data bus (Po-D7). It means that

data and address are sent on same line but at different instant of time. This com configuration is done to acduce no of pins on 8085 micropaccesson IC. This multiplexed bus is denoted by ADO - ADT. The Signa lines ADO - AD7 @ Ohe bidirectional. Demultiplexing of ADO-AD7 pins-ALE signal is used to demultiplex the address | data bus. The multiplexed address / data bus (ADO-AD7) is connected as input to 8-bit latch I ((TYLS373). The enable input (a) of latch I ( is connected to ALE pin of MP whereas output control (oc)is granded. ALE signal gaes high during Carlier pour of execution of instruction, latch is transparent and AD-AD7 is exellected to Ao-An In this way, complete address is available in address to the bus (Ao - Ais). Contractor once address

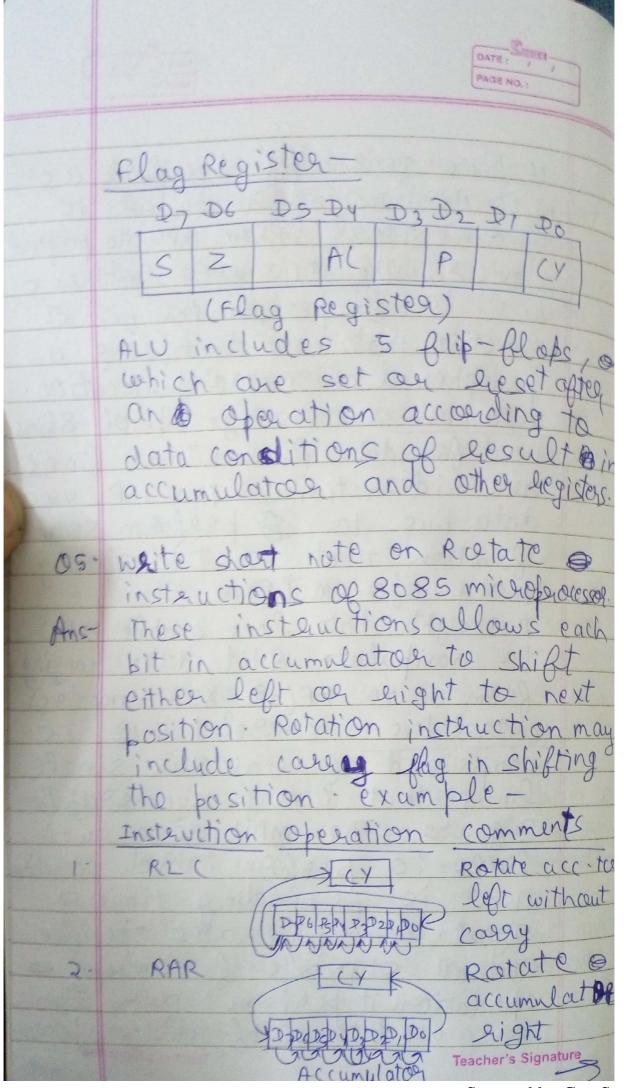


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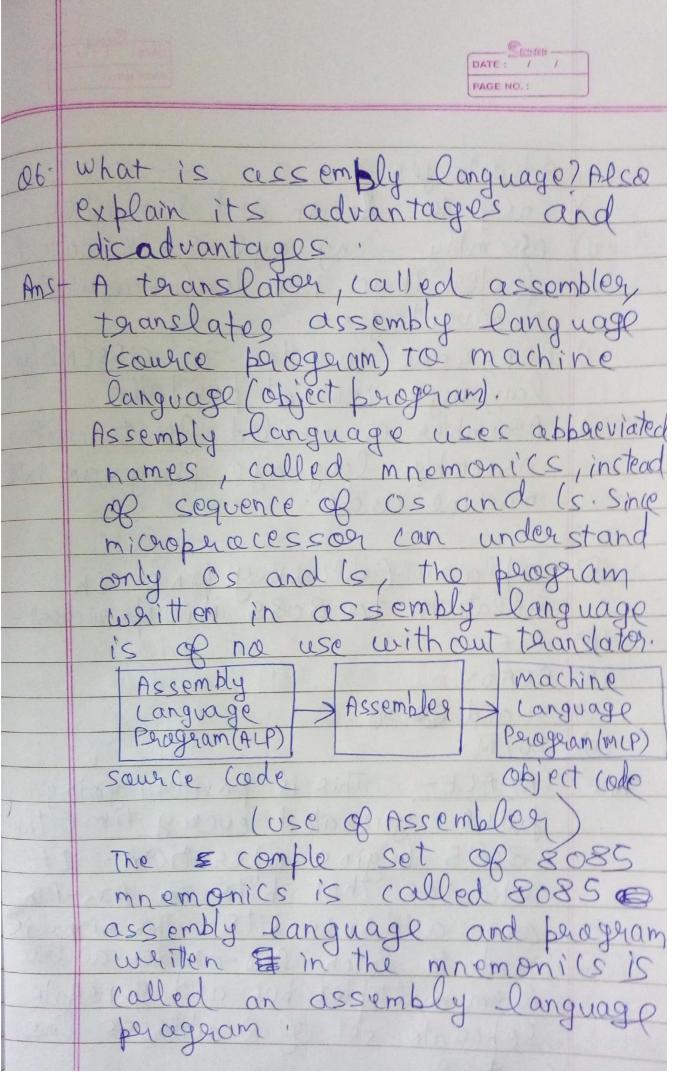
03-	refine diesect and indesect addressing
	modes with appropriate examples.
Ans	Direct addressing made -
	In this, address of duta is
	diaectly given in instauction itself
	using its hex suppresentation. 30
	16-bit address is used, second
	and thing of his too on a insta
	and third by the of instruction contain 16 bit add asstruction
	contain 16 bit address. If 8-bit address is used the
	address is used, then second
	The length of the address.
	The length of these instruction is always 3 hits
	Dalle Contraction
	example - example -
	Tactourita. I al
1	STA 200011
	3 - 1 care consents of
	00 acc- te given memory
3	la cation 300H
I	22 Stage HL Pregista
	00 pail into 2 concertine
2	20 memory la cations
1	IN 02 DB Copy data available
1	02 at heart address on
1	ta accumulator
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	DATE: , PAGE NO.:
	Indigect Addressing made  38 address of data is stored in elegister pair and name of a register pair is shown in instruction, then instruction is having indirect addressing made example-
).	Instruction Her code conferation  STAX B 02 store contents of  acc- at location  Specified by BC
2,	MOU A,M TE copy content of memory location
3	cmp m BE compare ontents  of memory location  specified by ML  egister pair to  acc. for less than  equal to, or more than
ans	Explain addhess bus, data bus and control bus of 8085 mi croperolessor.  Alsa draw flag register.  Address bus— It is a graup of Teacher's Signature,

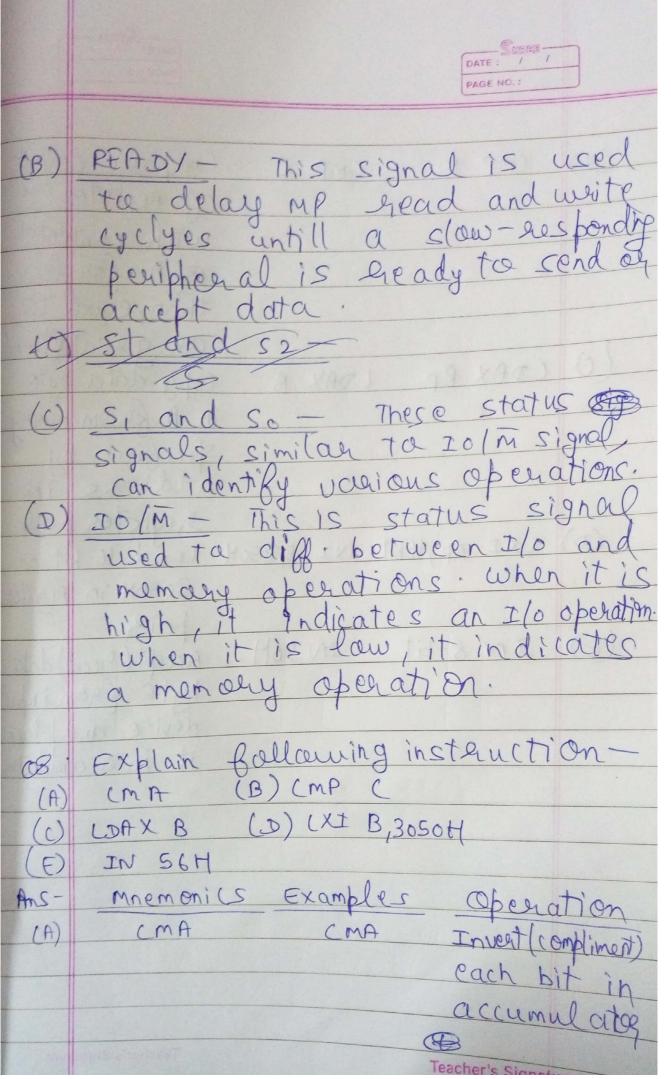
16 lines generally identified as At to As . The address bus is unidia ectional (Ruom MPU to peripheral devices). The MPU uses addies bus to # perform t function that is identifying peripheral on memory location. used for data Alcew. These lines are bidirectional. The function that is transforing binary information. The eight data lines enable from 00 to FF/28 = 256 numbers). al valious Signal. Mou generate one used to identif



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	Advantages -
1)	and to lace and la
ii)	Assembly language is experi
	Assembly language is executed facter than high level language
-	41310
1)	Programs written in assembly language is not portable.
- 1	language is not portable.
1)	ITSEMPLES IS REPORT DOOD to
	assembly ranguage program is
	machine code.
07	Extonin Profond 1
Q1	Explain fallowing pins in helation to 8085 microprotector-
(A)	ALE
(B)	READY
(0)	Stand So So
(0)	IO/M
- Ans-	(A) ALE- This is positive going
	pulse generated every time the
	8085 begins oberation. It
	indicates that bits on ADJ-ADD
	are address bits. This signalis
	used to latch low-ander adams
	from multiplex bus and generate
	seperate set of 8 address lines
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			DATE: SIGNESS
			PAGE NO.
(e)	CMP R	CMP C	Compage contents Of Register C
			with contents
			Of A for less than, equal to,
10	LDAX RP	LDAX B	copy data byte
			in A from menory specified by
			addless in
(0)	LXI RP, 16bit	LXI B,3050H	regicter pais Load 16 bit no
10		Light H	3050H in Register
	IN 8-bit	IN 56H	Accept (Great) data byte from input
			device and place
			it in accumulates
		THE TANK OF THE	Y AM A DELLA SERVICE OF THE SERVICE

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