Name: Ahmad Abdur Rafi TD: 19101023 CSE 341 Section: 02 Assignment 02 Ans: to: the - Q: No - 01 Herre My BRACU Student id = 19101023 2. MOV AX, 1910H MOV BX, 1023HP with principles of of 00 1 ad A Now. → 0001 1001 0001 0000 1910 H 1023 H → 0001 0000 0010 0011 0010 1001 0011 0011 So, status Flag will be 2. CF: 0 PF: 0 AF: 0 HI I am - la month mill of

ZF:0//

SF: 0

OF: 0

Ans: to: the-Q: No-02

"The flag registere helps in pregreamming the 8086 Microprocessore."

In Intel 8086 it has 16 flag registers and among them 9 are active. The main purpose of the flag registers are to show the different statuses of the processor. It is done by setting the individual bits. These are called Flags.

There are two kinds of flag. One is status flag? the other one is control flag.

Status Flag: It reflect the status of an operation executed by the processor.

Control Flag: It enables or disables curtain operations of the processor.

Ansito: the-Q:No-03

Register Direct Addressing	Register Indirect Addressing
1. The required data contains in the registers.	
2. It accesses the memory	2. It access the
2. It accesses the memory only once.	memory twice.
3. Example -	3. Example -
MOV AX, BX	MOV AX, [BX]
od citale in the	Here we have he
Herce, Bx contains required	Herce, Bx contains the
or on Datain set lesion	address of required
716 -25 mily	data.
vintore endusin in endors	it soil har n'

questions or the person of

Ansito: the-Q:No-04

Given that,

MOV 101A[BP+DI], DL

Now. Considering the opeode for a Mov operation to be 10 00 10

So, = 0=0 24 - wholey

100		<=	0		92.00				1,	٨		Y			, ,	
Byte 1							Byte 2									
1000 10			0	0	1	0	0	1	0	0	1	_	1	1 10		
Opcode			- [0	×	М	00	REG			R/M					
Byte 3 Byte 4																
0	0	0	1	1	0	1	O	0	Ō,	O	1	0	0	0	0	
	11 9 8	4	Lou	S	byte	2		لد	. 1	He	gh	6	yte	2	, /	

.. In Hexadecimal = 88 93 1A10 H

 $(A_{ns:})$

Ams:to:the-Q:No-05

Given that,

MOV Dx, [Bx+SI]

Now, considering the opcode forca Mov operation to be 10 00 10.

$$S_0$$
, $D = 0$

1	Byte	1) (i	By.	人 te	2	- 1	†	
	100010	10	1	O	0	0	1	0	0	0	0
	Opcode	O ,	×	MoD		REG		R/M			
	~			,	4		1		9		
	8.						10				

i. In Hexadecimal = 8B 10 H

 (A_{i})

Ans: to: the - 0: No-06

(a)

Herce,

MOV 101A[BP+DI], DL

So, it is a Base-relative-plus-index addressing. Because, herce, it has a base, index and a displacement.

(b)

Herce,

Mov Dx, [Bx+SI]

So, it is a Base-plus-index addressing cause Bx is a Base and SI is a index registere here!