

National University of Computer and Emerging Sciences, Lahore Campus



Course:

Exam:

Computer Organization and

Program: Duration: Paper Date: Section:

Assembly Language BS(Computer Science)

15 Minutes 04-09-2019

Quiz 1

Course Code: Semester:

Total Marks: Weight

Page(s): Roll No: EE213 Fall 2019

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1) Consider the following Memory Area and give the answer of the following question

	0	1	2	3	4	5	6	7	8	9	A	В	c	0	E	F
0C21:01A0	13	96	DO	EC	DO	EO	AZ	16	99	80	3E	20	99	00	75	24
0C21:01B0	_										_				100000	10000
0C21:01C0																
0C21:01D0	89	3E	21	96	вв	06	97	80	3E	13	96	00	74	03	88	40
0C21:01E0	97	BE	C3	96	88	3E	05	98	В9	08	00	AC	30	3F	75	02
0C21:01F0	8A	07	30	20	74	01	AA	43	E2	F1	81	03	во	20	38	0-
0C21:0200	74	12	во	2E	AA	AC	30	3F	75	02	8/	07	30	20	74	0
0C21:0210	AA	43	E2	F1	32	СО	ДА	C3	Fб	46	04	02	75	43	88	A

Which Logical address (i.e segment and offset address) in the above Memory area is equal to Physical address OC40F?

0C21:01FF

2) What will be stored in data label after executing following line of code, let data is stored at 0100 offset. (Part i and part ii are separate, do not copy part i answer in part ii) both are legal instructions. (2)

mov byte [data], 0x4567 4 DS:0100

ii)

mov word [data], 0x456789AB

T Williams	0	1	1	2	3	4	5
DS:0100	AB		89			all I rene fo	

67230 71000	6-71/11/0 -67CEC	FFFF0 + FFFF	TOFFEF - 10000						
+ 0ABC + 0110 67CEC 71110	09424	IOFFEF	FFFEF						
3) If it is required to store a byte in each of will be stored in total:			(.5) (2)						
Memory Locations Seg: offset to Seg: Offset 6723:0ABC to 7100:0110	Number of byt	Number of bytes (you can write answer in hex) (9424)							
1000:0000 to FFFF:FFFF	(FF	FEF)16 ~							
4) Write down name of any two Control fla	gs.		(2)						
Interrupt Flor	g & Dike	ution flo	ag						
5) Write down the value of CF, OF, SF and P code.	V Fregister after execution	(1	(2)						
		00	000000						
Flag CF (Carry flag) OF (Overflow flag) SF (Sign flag) PF (Parity flag)	Value 1 0 0 0 1 0								
10000	FFFF		011 0100						
10000	OFFEF								
	FFE F		1000 0010						
0101 0000	0011	0010	0011001						
1000 0010	Toto	0100	1)011 0100						