National University

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of Computer & Emerging Sciences Peshawar Campus

Student Name:	SOLUTION
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Program: BCS Semester: Fall-2022

Time Allowed: 20 Minutes

Course: COAL

Roll	No:			

Total Marks: 11

Weightage: 4

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Date: 22nd September, 2022

Quiz 01

Show the values of AX, BX and given flags for all executable instructions.

	AX		BX		OF	DF	IF	SF	ZF	AF	PF	CF
[org 0x0100]												0.2
xor ax,ax ;0100	00	00	00	00	0	0	1	0	1	0	1	0
xor bx,bx ;0102	00	00	00	00	0	0	1	0	1	0	1	0
									,			
mov ax,[Tag1];0104	00	OB	00	00	O	0	1	0	1	B	1	0
mov bx,5 ; 0107	00	OB	00	05	0	0	1	0	1	0	1	0
add ax,bx ;010A	00	10	00	05	0	0	1	0	0	1	Ö	0
mov [Tag1+2],ax ;010C	00	10	00	05	B	0	1	0	0	1	0	0
						45.1823						
sub bx,0x8000 ;010F	00	10	80	05	1	0	1	1	0	0	1	1
add ax,[Tag1+2];0113	00	20	80	05	0	0	١	0	3	0	0	0
											10	
mov ax.bx ;0117	80	05	80	05	O	O	1	0	0	0	0	O
mov bx, Tag2;0119	08	05	01	28	Q.	0	1	0	0	0	0	0
add bx.2;011C	80	05	01	20	0	0	1	0	0	0	1	0
							,					
mov ax,0x4c00 ;0120												
int 0x21;0123												
10												
Tagl: dw 11, 6 3;0125												
Tag2: dw 0;012B												

+		0000			_	0000		
	9000	0000	1000	0000		0000	0000	000
	2				*	•		
	0000	0000	0000	0101		0000	0001	0010
, _	1000	0000	0000	0000	+	0000	0000	0000
	1000	0000	000	0101		0000	0001	0010