

Student Name:						Roll#	GR#	
An	swer the fo	llowing	g questio	ns.				
1.	1. How reading from memory is different than reading from registers? [2 Point							
Be	cause regis	ters ar	e located	l within the	CPU, no address	ing is involved hence	e no need to fetch data through	
bu	sses, access	s delay	is minima	al which is n	ot the case when	accessing memory		
_	.			-1 ••				
2.	Given that EAX = 1234 0000h, write some code that should place twice of upper 16 bits in lower 16 bits of EAX, e.g. EAX=1234 2468h after processing, do not use MUL. [4 Points]							
	•	234 24	68h after	processing,	do not use MUL.	[4 Points]		
	.data –	D1:105		_				
	Temp	DWOF	₹D	?				
	.code MOV	Temp	EAV					
	MOV	-	-	[Temp+2]				
	_	MOV DX, WORD PTR [Temp+2] ADD DX, DX						
	MOV	AX, D						
3.	Using indirect addressing mode and LOOP only, replace each of the following WORD elements with its							
	mathematical half, do not use MUL or DIV instructions: [4 Points]							
	ARR1 SWORD -12, -14, -16, -18, -20					24 +26	2	
		3		,, .	0, 10, 10, 11,	, -0		
	.code							
	MOV ESI, OFFSET ARR1							
	MOV ECX, LENGTHOF ARR1 -1							
	MOV	AX, 6	AX, 6					
	L1:	ADD	[ESI], A	X				
		INC	AX					
		ADD	ESI, TY	PE ARR1				
	LOOP	L1						
	SUB	SUB [ESI], AX						
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4.	Given the code snippet below, answer the following questions: [2 Points] . CODE							
			DEDEP	MOV AX	255			
			DEDEh DEDFh	MOV AX				
			DEEOh	MOV CI				
			DEE1h	ADD AI				
			DEE2h	SUB BI	•			
			DEE3h	DEC AI				

A. What is stored in EIP after line#5 is executed?

FCFA DEE3h

B. Write down the status of following flags after line 4 is executed

CF: **SET (1)** OF: CLEAR (0) ZF: **SET (1)**