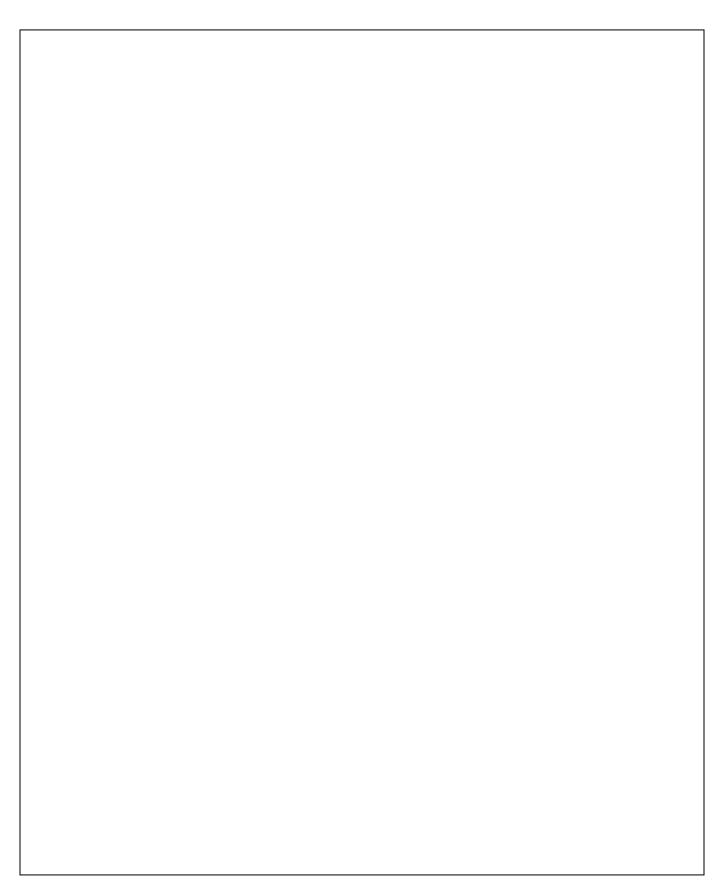
National University of Computer and Emerging Sciences, Lahore Campus

	SE STATUTE & EMERGINGS SE STATUTE SE SE ST	Program: Duration: Paper Date Section: Exam Typ	te:	Computer Organiza Assembly Languag BS(Computer Scien 60 Minutes ALL Mid-1	е	Course Coo Semester: Total Marks Weight Page(s):	Spring 2018	
Stu	udent : Name:_			·	Roll No	S	ection:	
Ins	truction/Notes:	2. P 3. Y 4. V <u>v</u> 5. N	Properl You CA Vrite y VONT Vo nee	o Open book, Open not be comment your code NNOT use an instruct our answer in the span of the copy code from the line numbers are	e. ion NOT taught in c ice provided. You ca <u>H THE QUESTION</u> book. If you need an	n take extra s <u>PAPER</u> OR IV	IARKED.	
<u>Q1</u>	to Q5 carry 5 ma	rks each.						
Q1.	To address 1-MB of memory we need 20 bits of addressing, then how much megabytes of memory can be accessed using 30 bits of addressing MB.							
Q2.	(logical address in CS) to which the jump will take place.							
	Offset of Opcod		Opcod	le	Type of Jump?	Off	fset ?	
	0125		EBE9 ;EB is o	opcode of jump				
Q3.	Given the following sequential set of instructions of same program, write down the values of CF, PF, ZF after each instruction: (initially all flags are zero.) CF PF ZF							
	xor ah, ah							
	mov al, 0x4A							
	shl al, 2							
	rcr ah, 3							
	sub ah, al							
Q4.	Write an instruc	tion which	reads	the first byte of its ov	vn op-code and stor	es it into al re	gister.	

Q5.	Write assembly code to compare two 32-bit numbers such that if num1 is equal to equal to num2 it sets ZF=1 else ZF=0. (Declare two 32-bit numbers in memory to compare)							
	Write an assembly program, such that given an array of ten integers, your program <u>finds and stores the sum of unique elements of array</u> in a memory label called "sum" (defined word). [10 Marks]							



S GOOD LUCK! **S** ≥