COAL BS CS Fall 2022 Quiz 1

Time allowed: 20	min	Total marks: 20
Roll Number:	Name:	
begins at address address 130E:000	o segments, named as Segment 'A' and Segment 'B' in a s 120C:0000 and ends at address 120C:FFFF, similarly t 00 and ends at address 130E:FFFF. Are these segments dinber of locations between these two segments if these are	the second segment B begins at isjoint or overlapping. Calculate
Yes, Overlapping.		
Ending PA of 120C is Starting PA of 130E is		
220BF-130E0=EFDF	7	
Q#2: Give the sh	nort answers of the following questions?	[2*4]
i) What should be 27 bit	e the size of address (in bits) to access a memory of 128 M	Mega Bytes?
ii) What is the bin	nary equivalent form of the decimal number $(-256)_{10}$? 100000000	
	num signed value can be stored in a variable of size two b to 2^{16-1} to 2^{16-1} = -2^{15} to 2^{15} -1 = -32786 to 32785	pytes?
iv) A memory loc 750	cation has physical address $80A32$.In what segment does 00	it have offset BA32?
Q#3: Consider the	the following memory area	[2+2+2]
	32 C0 EB 06 34 02 22-C4 D0 E8 <mark>0A</mark> 34 00 D2 0A .24. 31 34 31 34 31 34 31 34 31 34 31 34 31 34 31	"4
0AE3:0120 13 96	66 D0 E0 D0 E0 A2 1E-99 80 3E 20 99 00 75 24	>u\$
0AE3:0130 A2 2	24 99 0A C9 75 1D 0A-C0 74 19 8B 0E 21 96 E3 .\$u.	t!
0AE3:0140 13 B	30 1A 06 33 FF 8E 06-00 96 F2 AE 07 75 05 4F3	u.O
0AE3:0150 89 3	BE 21 96 BB 06 97 80-3E 13 96 00 74 03 BB 4C .>!	.>tL
i) E ii) F	ne following debugger commands in above memory area: 11B 74 120 133 '41' nich Logical address in the above Memory area is equal to	

014D