COAL BS DS Fall 2022 Quiz 1

Time allowed	d: 20 min	Total marks: 20
	r: Name:	
begins at addaddress 530E	e two segments, named as Segment 'A' and Segrences 430C:0000 and ends at address 430C:FFFD:0000 and ends at address 530D:FFFF. Are these number of locations between these two segments	F, similarly the second segment B begins at e segments disjoint or overlapping. Calculate
No, these segmen	ents are disjoint.	
Ending PA of 43	30C is = 530BF	
Starting PA of 53	30D is = 530D0	
Q#2: Give th	he short answers of the following questions?	[2*4]
i) What shou <mark>27 bit</mark>	ald be the size of address (in bits) to access a men	nory of 128 Mega Bytes?
ii) What is th 10000000	ne binary equivalent form of the decimal number	$(-128)_{10}$?
	naximum signed value can be stored in a variable $1 = -2^7$ to $2^7 - 1 = -128$ to 127	of size one bytes?
iv) A memor 7500	ry location has physical address 80A32 .In what s	egment does it have offset BA32?
Q#3: Consid	der the following memory area	[2+2+2]
	98 32 C0 EB 06 34 02 22-C4 D0 E8 0A 34 00 D 34 31 34 31 34 31 34 31 34 31 34 31 34 31 34 31 3 13 96 D0 E0 D0 E0 A2 1E-99 80 3E 20 99 00 75	34 31
0AE3:0130	34 31 34 31 A2 24 99 0A C9 75 1D 0A-C0 74 19 8B 0E 21 9	96 E3 .\$ut!
0AE3:0140	13 B0 1A 06 33 FF 8E 06-00 96 F2 AE 07 75 05	5 4F3u.O
0AE3:0150	89 3E 21 96 BB 06 97 80-3E 13 96 00 74 03 B	B 4C .>!>tL
Give output i) ii) iii)	of the following debugger commands in above n E 11B 74 F 120 133 '41' Which Logical address in the above Memory ar	·

014D