## CSE260 Assignment - 1

## Deadline - 26th Feb, 11:59 PM

Marks: 100

## Assignment must be handwritten. Scan and upload PDF in the given google form

1.	Convert the following decimal number to equivalent binary numbers:	[5]
	(a) $(4195.25)_{10}$	
	(b) $(2356.54)_{10}$	
	[for infinite fractional part, just do 4 steps and use dots for the rest]	
2.	Convert the following base 7 number to equivalent base 5 numbers:	[5]
	(a) $(5412)_7$	
	(b) (434.156) <sub>7</sub>	
3.	Convert the following binary numbers to equivalent hexadecimal numbers:	[5]
	(a) $(10110111)_2$	
	(b) (1110010011.10101000101011) <sub>2</sub>	
4.	Convert the following binary numbers to equivalent octal numbers:	[5]
	$(q) (010110111)_2$	
	(b) (1110010011.10101000101011) <sub>2</sub>	
5.	Perform the following base conversions $[2x5 =$	<b>= 10</b> ]
	(a) $(A9)_{11} = (?)_7$	
	(b) $(11335)_7 = (?)_4$	
	(c) $(0011)_{BCD} = (?)_5$	
	(d) $(1036)_{10} = (?)_{Excess3}$	
	(e) $(27841)_{10} = (?)_{Excess5}$	
6.	Which one of the following numbers is the largest?	[5]
	$(101101)_{2,}(57)_{8,}(35)_{10,}(1F)_{16}$	
7.	Perform addition, subtraction and multiplication for the pair of following ba	ıse-8
	numbers. Verify your results by converting the problem into decimal.	[10]
	$(417)_8$	
	$(134)_8$	
8.	Perform addition, subtraction and multiplication for the pair of following	
	base-16 numbers. Verify your results by converting the problem into decimal.	[10]
	$(A3)_{16}$	
	$(47)_{16}$	
9.	$(-12345)_{10} = (?)_{1s}$ in 16 bits	[2]
10	$(-2)_{10} = (?)_{1s}$ in 16 bits	[2]
11.	$. (10101010)_{1s} = (?)_{10}$	[2]

2]
2]
5]
0]
5]
5]