COSC2406F18 – Assembly Language Programming

Assignment #1 Answer Sheet   Name: Matthew Ferlaino

<mark>ENTER ALL YOUR FINAL ANSWERS ON THIS ANSWER SHEET AND ATTACH YOUR SUPPORTING WORK USING EXTRA SHEETS</mark>

Number Sets: (enter your number set here.)

Decimal	58	89	245	200	125
Binary	01110111	10100011	00001001	11111000	11010101
HEX	5B60C1CC	141AB72D	E5C4C581	44484AAB	9726309F

Question 1a - HEX Representation

3A	59	F5	C8	7D

Question 1b - Binary Representation

00111010	01011001	11110101	11001000	01111101

Question 2a - 2's Complement

00111010	01011101	00001011	00111000	10000011

Question 2b - 16's Complement

C6	A7	0B	38	83

Question 3a - Unsigned value of the binary numbers

119	163	9	248	213

Question 3b - Signed value of the binary numbers

119	-35	9	-220	-85

Question 3c - HEX value of the binary numbers

77	A3	09	F8	D5

Question 4a - Signed addition the first binary number with the other 4 numbers

100011010	10000000	101101111	101001100

Question 4b - Subtraction of the first binary number with the other 4 numbers

011010100	101101110	01111111	10000010

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Question 4c - AND the first binary number with the other 4 numbers

00100011	00000101	01110000	01010101

Question 4d – OR the first binary number with the other 4 numbers

11110111	01111111	11111111	11110111

Question 4e - XOR the first binary number with the other 4 numbers

11010100	01111110	10001111	10100010

Question 5 - binary value of each HEX number

Q	0101 1011 0110 0000 1100 0001 1100 1100
R	0001 0100 0001 1010 1011 0111 0010 1101
S	1110 0101 1100 0100 1100 0101 1000 0001
T	0100 0100 0100 1000 0100 1010 1010 1011
U	1001 0111 0010 0110 0011 0000 1001 1111

Question 6a - Signed addition of the first HEX number with the other 4 numbers

6F7B78F9	14125874D	9FA90C77	F286F26B

Question 6b - Signed subtraction of the first HEX number with the other 4 numbers

47460A9F	759BFC4A	17187721	C43A912C

Question 6c - AND the first HEX number with the other 4 numbers

1000810C	4140C180	40404088	1320009C

Question 6d - OR the first HEX number with the other 4 numbers

5F7AF7ED	FFE4C5CD	5F68CBEF	DF66F1DF

Question 6e - XOR the first HEX number with the other 4 numbers

4F7A76E1	BEA4044D	1F288B67	CC46F153

Support may be hand written and then scanned to a PDF document or typed.