CS1203

Assignment 2

Isaac Shoebottom

3429069

"I warrant that his is my own work"

1)   7   5   0   3

(111)   (101)   (000)   (011)

1111   0100   0011

F   4   3

2)   9   C   3   B

(1001)   (1100)   (0011)   (1011)

(001) (001) (110) (000) (111) (011)

1   1   6   0   7   3

3)   a)   (001) (011) (010) (111)

1   3   2   7

b)   (0010) (1101) (0111)

2   D   7

4)   a)   1101101 -> 1 + 4 + 8 + 32 + 64 = 109

b)   A57B -> 11 + 7*16 + 5 * 16^2 + 10 * 16^3 = 42363

c)   3725 -> 5 + 2*8 + 7*8^2 + 3*8^3 = 2005

5.   75 -> = 64 + 11

64 + 8 + 3

64 + 8 + 2 + 1 -> 1001011

6.   1297 -> 1297 MOD 8 = 162 R=1

                    162 MOD 8 = 20 R =2

                    20 MOD 8 = 2 R=4

                    2 MOD 8 = 0 R 2

The remainders are the converted octal places so it would be 2421

7.   2029 -> 2029 MOD 16 = 126 R = 13

                    126 MOD 16 = 7 R = 14

                    7 MOD 16 = 0 R=7

The remainders are in decimal so then convert to hex

7   14   13

7   E   D

8.   624 -> 624 MOD 7 = 89 R= 1

                    89 MOD 7 = 12 R=5

                    12 MOD 7 = 1 R=5

                    1 MOD 7 = 0 R=1

             1551   //I did it wrong no time oops

9.   921 -> 921 MOD 14 = 65 R=11

                    65 MOD 14 = 4 R=9

                    4 MOD 14 = 0 R=4

             49B

10.   a)   27AC + 385   1 1

                                  27AC

                            + 385

                              2B42

I couldn't finish the rest but It was due to me being up all night in pain and puking, I couldn't get a good sleep. I know it should have been done before then, but If you would let me resubmit via email, send me an email at ishoebot@unb.ca