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CPSC 330

1. What are the 5 areas in performance evaluation?

Attendance, lab and homework, midterm, quiz, and final.

2. What cannot be used during test? Where to put your cell phone during test?

The book or a graphical/programmable calculator cannot be used during the test. Cellphones should be placed in your backpack.

3. What logic gates at hardware level are need to support the code:  
 if (a==b)  
  {  
     ....  
  }

A multiplexer

4. Convert 332 to hexadecimal

332 – 1\*16^2 = 76

76 – 4\*16^1 = 12

* 332 = 1\*16^2 + 4\*16^1 + 12\*16^0 = 0x14C

5. Convert -9 in 8 bit 2’s complement

9 = 2^3 + 2^0 = 0x00001001

-9 = 1’s complement (9) + 1 = 0x11110110 + 0x0000001 = 0x11110111

6. Convert -31 in 10 bit 2’s complement, convert -126 in 10 bit 2’s complement

31 = 2^4 + 2^3 + 2^2 + 2^1 + 2^0 = 0x00011111

-31 = 1’s complement (31) + 1 = 0x11100000 + 0x0000001 = 0x11100001

126 = 2^6 + 2^5 + 2^4 + 2^3 + 2^2 + 2^1 = 0x01111110

-126 = 1’s complement (126) + 1 = 0x10000001 + 0x0000001 = 0x10000010