

Nat 5 Homework 5

1. Convert **10010111** to decimal **(1) 151**
2. Convert **10101010** to decimal **(1) 170**
3. Convert **11100111** to decimal **(1) 231**
4. Convert the value **35** into an 8-bit binary number. **(1) 0010 0011**
5. Convert the value **107** into an 8-bit binary number. **(1) 0110 1011**
6. Convert the value **78** into an 8-bit binary number. **(1) 0100 1110**
7. Identify the mantissa and exponent of 0.112×10^4 **(2) Mant: 112 Exp: 4**
8. How many bits does Extended ASCII use to represent characters? **(1) 8**
9. What is the ASCII code for each of the following characters **(4)**
 - a. A = **65**
 - b. Z = **90**
 - c. Space = **32**
 - d. Full stop = **46**