CSE Department, North South University

ETE131: Introduction to Telecommunications & Computer Engineering (SyR)

Problem Sheet 1: Number Systems

Q1. Convert the decimal number 158 into

a) Binary b) Octal c) Hexadecimal

Q2. Convert the decimal number 100 into

a) Binary b) Octal c) Hexadecimal

Q3. Find the decimal values of the following numbers

a) 553_8 b) 100_{16} c) 100111_2

d) $ABCDE_{16}$ e) 1010_{10} f) 431_8

Q4. If $X = 950D_{16}$ and $Y = B64_{16}$, find the value of X+Y

Q5. If $A = 26712_8$ and $B = 6037_8$, find the value of A+B

Q6. If $C = 1001111_2$ and $D = 101101_2$, find the value of C+D