

SRM IST, DELHI-NCR CAMPUS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.TECH. CSE 3RD SEMESTER

COMPUTER SYSTEM ARCHITECTURE (15CS203)

ASSIGNMENT – 2

ISSUE DATE:

DATE OF SUBMISSION:

Q1 Do the following using 2's complement

(a) $(-4) + (+9)$ (b) $(+5) - (-3)$ (c) $(-2) - (-5)$

Q2 Draw a diagram and discuss how Carry-Lookahead Adder is better than normal adder

Q3 What do you understand by Bit Pair recoding of multiplier. Do the following using bit pair recoding multiplication.

(a) $(-4) * (+3)$ (b) $(+8) * (-2)$ (c) $(-2) * (-4)$

Q4 Brief the process of Restoring and Nonrestoring division methods. Apply both methods on the following

(a) $9 / 3$ (b) $13 / 4$

Q5 Discuss the IEEE standards for Floating-Point Numbers.

Q6 How carry save adder is faster than ripple carry adder? justify your answer.