

BRAC UNIVERSITY
Department of Computer Science and Engineering

Examination: Quiz - 3
Duration: 35 minutes

Semester: Fall 2024
Full Marks: 15

CSE 340: Computer Architecture

Name:	ID:	Section:
-------	-----	----------

- Q1. Given two numbers, **X = 10011.1010001100** and **Y = 100.011110100011**. Perform **X+Y**. Determine whether the result shows overflow, underflow, or neither.
Note: Consider 5 digits after the floating point while converting from decimal to binary. You must show all the steps associated with the calculation.
- Q2. Convert the following IEEE 754 single-precision number to its floating-point representation:
405FE95C
- Q3. Multiply the following 8-bit integers in 2's complement using Optimized multiplication.
A=11100110
B=00011011