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York University

Dept. of Computer Science and Engineering

EECS2021 Computer Organization Quiz 3 — 15 minutes Dec. 2nd 2015

Question 1 - 6 points

Convert the Following single precision IEEE floating point representation to a fixed point decimal value

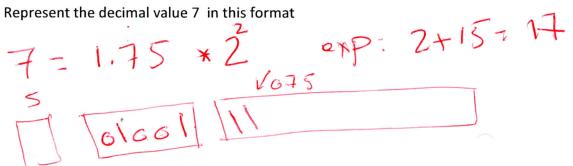
0xBF400000 5 126-127--1 126-127--1

Question 2 - 4 points

Assume a floating point representation that is similar to IEEE754, with the following differences:

The exponent field is 5 bits, Mantissa field is 7 bits, Sign is 1 bit, and bias = 15

Represent the decimal value 7 in this format



What is the largest normalized value that could be represented in this format?