

Assignment 1

Q 1) (a) [5 marks] Explain the 2's complementary method of representing signed integers with examples. (b) [5 marks] Why not have a simple scheme where one bit is the sign bit and the rest of the bits represent the magnitude of the integer?

Q 2) [5 marks] Represent -2.25 in the IEEE 754 format. Give your answer in hexadecimal format. Show all steps clearly.

Q 3) [5 marks] What are denormal numbers in IEEE 754 standard. What is the need for them?