

COT 4810: Topics in Computer Science

Spring 2004

Homework 3- Due 2/20/04

1. Build a Huffman Tree using this frequency table:

T : 3

E : 2

C : 1

H : 2

A : 1

\b : 2

2.- Name two image processors used in digital cameras and describe their purpose:

3. What is the Hamming distance?

4. Compute the Godels number for the following expression:

$$1 + s = 0$$

5. Give an example of how the Newton-Raphson method works.

6. Explain how a MOS transistor works as an inverter and how it is represented in VLSI.