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 Gödel's 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.