ELEX 3525 Quiz 1 Paper, Test 1 A00123456 0

10pt Show your work and underline your final answer. Numeric answers must include units. Books, notes and calculators allowed. No other electronic devices allowed.

- 1. (a) A 'scope uses 10 bits to quantize each sample. For a typical waveform, what is the approximate quantization SNR?
 - (b) The 'scope can sample at up to 1 GHz. What is the maximum frequency of an input signal that could be accurately sampled?
- 2. What sequence of bits would be transmitted if the 16-bit value 0x4321 were to be transmitted in little-endian order, most-significant-bit first?
- 3. What sequence of bytes would be used to encode the Russian (Cyrillic) character 3 ("ze") which has a Unicode code point of U+437 (hex 0x437)?

ELEX 3525 Quiz 1

Paper, Test 2

10pt Show your work and underline your final answer. Numeric answers must include units. Books, notes and calculators allowed. No other electronic devices allowed.

- 1. (a) A 'scope uses 8 bits to quantize each sample. For a typical waveform, what is the approximate quantization SNR?
 - (b) The 'scope can sample at up to 2 GHz. What is the maximum frequency of an input signal that could be accurately sampled?

255

400123456

- 2. What sequence of bits would be transmitted if the 16-bit value 0x1234 were to be transmitted in little-endian order, most-significant-bit first?
- 3. What sequence of bytes would be used to encode the Russian (Cyrillic) character д ("de") which has a Unicode code point of U+434 (hex 0x434)?