Assignment7

- 1. [2 pts] (Multiple choice) Which of the following statements is/are FALSE?
 - A. The meaning of the information depends on its recipient.
 - B. Bandwidth can be a measure of the rate of information transmission.
 - C. Compression ratio is the size of the compressed information divided by the size of the uncompressed information.
 - D. In all cases, the higher the compression rate, the more information is lost.
 - E. Digital data is a discrete representation of data.
- 2. For **101**,
 - 1) consider it as a binary number, what is its decimal representation?
 - 2) consider it as an octal number, what is its decimal representation?
- 3. [2 pts] Convert the decimal number **526.625** to binary and then to hexadecimal number.
- [2 pts] Please calculate 20+ (-22) (decimal notation) converted to two's
 Complement Notation using 8 bits and write the answer in decimal number. The
 solution process is required.
- 5. [2 pts] Write down your Student ID, treat it as a string of numbers, then encode it using the ASCII character set. (Answer in hexadecimal format)