Assignment7

- BCD 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? 5
 - 2) consider it as an octal number, what is its decimal representation? 65
 - 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.

3. [2 pts] (10 0000 1110.101)₂ (20E.A)₁₆

4. [2 pts] 20 → 0001 0100, -22 → 1110 1010, 0001 0100 + 1110 1010 = 1111 1110, result -2