Name: _____ ID: _____

Exercise 2 Text Encoding

Convert the following codes to regular text. Note that space is provided to aid readability. For 1 to 4, consult the ASCII table in our class presentation slides. For 5 to 12, you'll need to look up code points (www.unicode.org/charts/). Input code points (add 00 if needed).

1. 1100010 1100101 1100001 1100011 1101000 (binary, 7-bit ASCII)

   ANSWER:

2. 1100011 1101111 1101111 1101100 0100001 (binary, 7-bit ASCII)

   ANSWER:

3. 01110000 01101001 01100011 01101110 01101001 01100011 (binary, 8-bit)

   ANSWER:

4. 01101000 01101111 01110101 01110011 01100101 (binary, 8-bit)

   ANSWER:

5. 53 74 61 72 62 75 63 6B 73 (Hexadecimal, UTF-8)

   ANSWER:

6. 69 6E 20 73 70 69 74 65 20 6F 66 (Hexadecimal, UTF-8)

   ANSWER:

7. 72 E9 72 75 6D E9 (Hexadecimal, UTF-8)

   ANSWER:

8. 0E04 0E27 0E32 0E21 0E04 0E34 0E14 (Hexadecimal, UTF-16)

   ANSWER:

9. 0E43 0E04 0E23 0E02 0E32 0E22 0E44 0E02 0E48 (Hexadecimal, UTF-16)

   ANSWER:

10. 0E18 0E07 0E0A 0E31 0E22 (Hexadecimal, UTF-16)

    ANSWER:

11. Convert your first name in Thai to UTF-16 hexadecimal representation.

    ANSWER:

12. Convert your first name in English to UTF-8 hexadecimal representation.

    ANSWER:

NOTE: I worked with [NAME] _____ to complete this exercise.