Encoding Scheme & Error Detection/Correction

1. Please write the entire 4-bit Gray code by reflecting and prefixing.

In [ ]:

2. Please Convert the following Gray code word to binary code.

1 0 0 1 1 0 1 0

In [ ]:

3. Convert the following Binary code word to Gray code.

1 0 0 1 1 0 1 0

In [ ]:

The following hamming coded message was received. Use it to answer questions 4 - 9.

0 1 0 1 1 0 1

4. Circle the parity bits p1, p2 and p3

In [ ]:

5. What position number is generated to determine if an error has ocurred in transmission?

6. Did an error occur in transmission?

In [ ]:

7. What was the original correct coded message?

In [ ]:

8. What was the original correct message?

In [ ]:

9. If the message is binary, what is the decimal value?

In [ ]:

10. Encode a decimal number 4 using each of the following codes.

A. Binary Code
B. BCD Code
C. Gray Code
D. Excess-3 Code
E. 7-bit Hamming Code

In [ ]: