Assignment 8

The due date for submitting this assignment has passed. As per the records you have not submitted this assignment.

1. In order to violate stepper motor in an anti-clockwise direction, which of the following bit sequence need to be applied to its windings?
   - 0111, 1011, 1101, 0010
   - 0110, 1101, 1011, 0101
   - 1000, 1100, 1110, 1111
   - 1111, 1011, 0101, 0000
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 0111, 1011, 1101, 0010
   1 point

2. In order to start the conversion, the W0 signal of A/D converter 0804 must be
   - kept HIGH
   - kept LOW
   - charged from LOW to HIGH
   - charged from HIGH to LOW
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Charged from LOW to HIGH
   1 point

3. The end of conversion of A/D converter 0804 is represented by
   $FIN = 0$
   $INF = 1$
   $W0 = 0$
   $W1 = 1$
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: $FIN = 0$
   1 point

4. For 0-5V analog input voltage range, the A/D converter 0804 produces digital output in the range of 0-7FFh. If the input analog voltage is 3.0 V, the corresponding digital output would be
   - 06FH
   - 07FH
   - 08FH
   - 09FH
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 06FH
   1 point

5. For 0-5V analog input voltage range, the A/D converter 0804 produces digital output in the range of 0-7FFH. If the input analog voltage is 0.198 V, the corresponding digital output would be
   - 02FH
   - 03FH
   - 04FH
   - 05FH
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 03FH
   1 point

6. If $E_{DD} = 5V$ and digital input to D/A converter IC 0800 is 10000000, the output current of 0803 would be
   - 1 mA
   - 2 mA
   - 3 mA
   - 4 mA
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 1 mA
   1 point

7. A 5KΩ feedback resistor is connected in the current to voltage converter at the output of D/A converter. If the digital input to IC 0800 is 11000000, the 0 points analog output voltage for linear operation would be
   - 0 mV
   - 1 mV
   - 2 mV
   - 3 mV
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 0 mV
   1 point

8. In the above question 7, the analog output voltage for multiplexer operation would be
   - 0 mV
   - 10 mV
   - 20 mV
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 0 mV
   1 point

9. A 5KΩ feedback resistor is connected in the current to voltage converter at the output of D/A converter. If the digital input to IC 0800 is 11000000, the 0 points analog output voltage for linear operation would be
   - 0 mV
   - 10 mV
   - 20 mV
   - 30 mV
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 0 mV
   1 point