Title: **Engineering and Scientific Notation** Test: 1

Course: Electrical Applications Unit: Electrical Theory CLO: 3

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade \_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objectives**

1. Student shall identify specific math functions and principles.
2. Student shall calculate an unknown quantity base on the equation given.

**Assessment**

Students shall demonstrate a comprehension of the objectives listed above by scoring a minimum of 75% on this Test. Grading shall be based on an answer key.

**Instructions**

Answer each multiple-choice question below.

1. The following exponent 74 is equivalent to:
   1. 28
   2. 16,384
2. This equation is the same as this equation .
   1. True
   2. False
3. The numerator in ¾ is?
   1. 3
   2. 4
   3. 0.75
   4. None of the above
4. What is the result of this equation?
   1. 0
   2. 1
   3. 7
5. Any number multiplied by 1 results in?
   1. The original number
   2. 1
   3. 0
   4. None of the above
6. Any number, except for 0, raised to the 0 power results in?
   1. The original number
   2. 1
   3. 0
   4. None of the above
7. Any number added to 0 results in?
   1. The original number
   2. 1
   3. 0
   4. None of the above

Convert the following decimal numbers to their scientific notation form.

1. 670811 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 0.0629 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Convert the following engineering notation numbers to their decimal form.

1. 3.251k \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 42.5µ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Convert the following scientific notation numbers to engineering notation form.

1. 8.136x105 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 91.26x10-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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