Title: **Series Circuits** Quiz: 4

Course: Electrical Applications Unit: Electrical Theory CLO: 3

Name ANSWER KEY Grade 20 pts Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objectives**

1. Student shall calculate various electrical quantities for a series circuit based on Ohm’s and Watt’s Laws.

**Assessment**

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

**Instructions**

Refer to the schematic below to calculate the following voltage references.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EA | EB | EC | ED | EE | EF |
| 40V | 36V | 20V | 0V | -6.667V | -13.333V |
| EAB | EBC | ECD | EDE | EEF |  |
| 4V | 16V | 20V | 6.667V | 13.333V |  |
| EAC | EAD | EAE | EAF |  |  |
| 20V | 40V | 46.667V | 60V |  |  |
| EDA | EDB | EDC | EDF |  |  |
| -40V | -36V | -20V | -13.333V |  |  |

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