

>>> Chapter 5 quiz for *Foundations of Engineering* <<<

Name _____ SSN _____

Welcome to the very last quiz in *Foundations of Engineering*. This is a short answer quiz. Please put your answers in the designated answer areas. The questions from this quiz come from the lecture and the book (chapter 5). Each problem is worth 12 points (4 points are for free). This quiz is open notes, but not open book. Your notes may only contain handwritten material generated by you. You have 20 minutes.

- 1) Complete the sentence with one or more words, "Quality education is more than **just taking courses**"

- 2) List at least 5 discipline specific organizations, honor societies, and/or gender/minority specific organizations.
ASCE, ASME, IEEE, ACM, Tau Beta Pi, Eta Kappa Nu, SWE, SPHE, and many others

- 3) What is the undergraduate research program at USF called? **Research Experience for Undergraduates (REU).**

- 4) Finish the sentence with one or more words. "With pre-professional employment you can get **experience** demonstrate **interest and commitment**, and earn **money**."

- 5) Finish the sentence with one or more words. When complaining about something you should always be **tactful, respectful.** and **rational.**"

- 6) The National Electric Code prescribes color codes for wiring. Describe the key color codes for residential wiring.
Black is hot (current source), white is neutral (current return), and green or copper is ground. Also, red is hot.

- 7) Why should you never grab a white wire in a household circuit? A white wire returns current from equipment. **If you grab it, it is possible that you are a lower resistance ground in which case current will flow through your body causing you pain or death.**

- 8) The course is almost over. I have had fun. I hope that you have too. Please give me some feedback on the textbook. If you did not think the text book was very good, please recommend a book (or type of book) that you think would be better suited to a "freshman engineering" class.
Any answer with some insight and exhibiting intelligence will count for full points.