

EE 220/220L Circuits I (Fall 2017)
Laboratory 0 Professional and Ethical Responsibility for Engineers

Name _____

Note: No correct answers or multiple correct answers are possible.

- 1) Check which of the following statements are part of the IEEE Code of Ethics:
 a) Strange women lying in ponds distributing swords is no basis for a system of government;
 b) to be honest and realistic in stating claims or estimates based on available data;
 c) to avoid injuring others, their property, reputation, or employment by false or malicious action;
 d) to prevent disease whenever I can, for prevention is preferable to cure.
- 2) Your firm has a 25-year track record in consulting and designing land-based industrial cooling systems. Check which job(s) are consistent with professional and ethical responsibility for your firm to compete for:
 a) Primary contractor for the Imperial DS-1 Orbital Battle Station.
 b) Developing refrigeration equipment to maintain the temperature of a server farm.
 c) Building a shipboard garum (fermented fish sauce used as a condiment) factory in Campania.
 d) Designing a solid fuel rocket stage for the Democratic People's Republic of Korea.
- 3) Check which of the following constitutes intellectual theft:
 a) Stealing and then selling the formula for the Everlasting Gobstopper to Mr. Arthur Slugworth.
 b) Taking plutonium from terrorists to power the flux capacitor that makes your DeLorean capable of temporal displacement.
 c) Leaving your job at Sun Microsystems in 1998 with a copy of the *Java Enterprise System* source code to found a company selling the *Latte Venture Scheme*.
 d) Selling substandard seafood from a roadside shack in Abilene.
- 4) Check which of the following situations would constitute engineering misconduct.
 a) Selling a wood burning steam engine as a *renewable* energy source for electricity generation for a 6 month (one-way) space probe mission to Mars to NASA;
 b) Moonlighting as a song writer "Devil Death Rats" for Rob Zombie while working at IBM;
 c) Over riding the safety switches to test fire the Illudium Q-36 Explosive Space Modulator before Marvin the Martian finishes inspecting its output.
 d) Wearing a purple and yellow plaid shirt with paisley pants and a plumed top hat to work.
- 5) As part of your duty to "improve the understanding of technology," you should:
 a) Explain the difference between energy and power to journalists.
 b) Teach Foolean algebra to high school students touring SDSM&T.
 c) Tell frosh that, like the Etch A Sketch, shaking their tablet PCs will clear the screen.
- 6) You are an engineer working with a safety team at a nuclear waste storage facility. Check which job(s)/decision(s) are NOT consistent with your professional and ethical responsibilities.
 a) Sell run-off water, containing transuranic elements, to a Canadian firm making poutine gravy.
 b) Analyze chemical constituent levels in an arriving shipment.
 c) Extract thorium and radium from your facility to inject into *Happy Fun Ball!*, the permanently glowing (for the next 10,000 years) toy for tots as a hobby business venture.
 d) Ensure daily containment safety checks are properly conducted.