

EE 220/220L Circuits I (Fall 2019)
Laboratory 0 Professional and Ethical Responsibility for Engineers

Name _____

Note: A question could have no, single, or multiple correct answers.

- 1) Your firm has developed a wristband-mounted English ↔ Spanish language translation system, the EngSpan I. Check which performance claim(s) are NOT realistic to make:
 a) The EngSpan I will teach you to yodel in Swiss in under two weeks!
 b) We can help you to order cheeseburgers in San Juan.
 c) With the EngSpan I, you can watch and understand dialogue for Argentinian soap operas.
 d) The EngSpan I lets you ask where the restroom is in a museum in Madrid, Spain.
- 2) Your company conducts safety training for nuclear reactor plants. Check which job(s) are consistent with your responsibility to, ‘... offer honest criticism of technical work, to acknowledge and correct errors, ...’:
 a) Tell the plant manager that they are ugly and their mother dresses them funny.
 b) Review their shutdown procedures to ensure all necessary steps are in the correct order.
 c) Crosstrain plant workers on the bossa nova (a style of Brazilian music) and jazz.
 d) Pressure test barrels of nuclear waste using flame throwers in the cafeteria.
- 3) Check which of the following statements is/are taken from the IEEE Code of Ethics:
 a) to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist;
 b) Fair exchange is no robbery
 c) It's not rocket science
 d) to avoid injuring others, their property, reputation, or employment by false or malicious action
- 4) Which of the following actions are NOT allowed by your responsibility to reject bribery in all its forms:
 a) Purchase a new gaming system from Best Buy during a Labor Day sale.
 b) Wearing a green sequined lab coat with controllable LED lighting to staff meetings.
 c) Accepting a diamond tiara from your office supplies representative for buying a pallet of paper.
 d) Give college admission officials Porsche Boxsters to admit your ‘challenged’ sibling to MIT.
- 5) Which of the following do NOT ‘improve the understanding by individuals and society of the capabilities and societal implications of conventional and emerging technologies, including intelligent systems’:
 a) Develop a tutorial on the difference and relationship between energy and power.
 b) Develop an Iphone app to guide frosh on quests to capture landsharks in the quad.
 c) Tell your nieces and nephews that Alexa is a little fairy imprisoned within an echo dot.
 d) Give a presentation on the current and future uses of GPS systems for agriculture to a 4H club.
- 6) To fulfill your professional duty as a 20-year electrical engineer at a power consulting firm “... to undertake technological tasks for others only if qualified by training or experience, ...” you should:
 a) Design a human-powered propeller beanie hat for paratrooper forces.
 b) Supervise the purchase of an electrical power surge protection system for a client.
 c) Bid to produce haute couture outfits for the Broadway production Mamma Mia! (part III).
 d) Lead a team installing an electric generation wind farm in Pukwana.