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Subject: Professional Ethics

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Q.1. Choose the correct response.

- a) Forcing people to close their businesses, and forcing them to stay at home during the Covid-19 pandemic. (Legal and Moral)
- b) Smoking Cigarettes. (Legal and Immoral)
- c) Parking in a no parking zone, to come to the aid of an injured person. (Illegal and Moral)
- d) Punishing students physically. (Illegal and Immoral)
- e) A student is cheating in examination but he is not caught by the invigilators. (Illegal and Immoral)

Q.2. Decisions made by engineers usually have serious consequences to people -- often to multitudes of people. Explain with example?

(Ans): Decision made by engineer is playing very important role in the project if they take a wrong decision by mistake so it can destroyed the complete safety and health measurements.

Some time it can create a very big issues.

Notice the issues that come up in these discussions

ISSUE #1: HEALTH AND SAFETY

ISSUE #2: DEPLETION OF RESOURCES

ISSUE #3: COMPARATIVE ECONOMIC COSTS OF RENEWABLE SOURCES

Example:

The Nuclear Plant Explosion in Chernobyl- The Explosion That Affected The Generation

Considered April 26, 1986, a sudden surge of power during a reactor systems test destroyed Unit 4 of the nuclear power station at Chernobyl, Ukraine, in the former Soviet Union. The accident and the fire that followed released massive amounts of radioactive material into the environment

In 1986, nuclear reactors failed and led to a series of explosions and radioactive fallout. As many as **64 people died** on the spot as a result of this engineering disaster.

However, almost **30,000 people** suffered from premature deaths due to cancer. This disaster occurred because of a flawed design of the reactor and the people operating it were not trained properly.

Few people haven't heard about the worst nuclear disaster in human history (second only to the Fukushima reactor failure in magnitude, of which more later). On April 26 of 1986, a structurally flawed reactor at Chernobyl Nuclear Power Plant exploded.

The accident that led to the destruction of the unit 4 reactor took place during a maintenance shutdown, which served the perfect opportunity to conduct a test to determine if, during a loss of power, the turbine would still provide energy to the system to run the cooling water pumps until the emergency power supply was online.

Unfortunately, the test, which was aimed to improve the non-nuclear operational capability of the plant, was carried out without enough safety precautions. Operational errors set in motion the potentially catastrophic conditions for disaster that were already in place due to the lack of proper communication and coordination between the personnel performing the test, and the staff in charge of the reactor's safety.

These circumstances resulted in the negligent violation of minimum operational standards during the test, and conditions became increasingly unstable in the reactor. This ultimately caused the destruction of several fuel assemblies. This in turn led to an increase in the pressure in the reactor, and the detachment of the 1000-ton support plate holding it.

The catastrophic result was the massive release of radiation into the atmosphere, spreading over a significant area of the western Soviet Union and Eastern Europe. The subsequent evacuation involved the displacement and relocation of 350,400 people from the most polluted areas in Belarus, Ukraine and Russia. To this day, Pripyat remains inhabitable and people continue to suffer the devastating after-effects, including over 30,000 premature cancer deaths.

After the tragedy, there were several lessons to be learned. These lessons have been applied to the safety in Western nuclear plants ever since. Nowadays, reactors designed during the Soviet era show a considerable improvement in safety, not only because of the investments allocated to the improvements of their designs, but the safety culture that has arisen from this and other experiences.

Q.3. What code of ethics do you follow as student of engineering? Give example from your academic and social life.

(Ans): First of all I'm going to discuss that what is ethic?

- Ethic means system of moral principles
 - Principle of right and wrong
- Principles of conduct governing behavior of an individual or a group

After knowing about ethic it's become clear that we follow the following code of ethic as student of engineering.

Academic Life

I, as a student of Engineering and Applied Science of the University of Iqra National University, shall recognize this code for guiding my conduct throughout my studies, personal life and career. I shall act at all times with honesty and trustworthiness towards my peers and society.

Accordingly, I shall

- I. Hold paramount the safety, health and welfare of the public within the university and workplace by promoting a welcoming, respectful and ethical environment that values everyone equally

- II. Uphold the academic integrity of the University of Regina and of the Faculty of Engineering and Applied Science, completing and submitting work that is founded on personal achievement and without plagiarism.
- III. Conduct myself with fairness and avoid conflicts of interest.
- IV. Give credit where it is due and accept, as well as give, honest and fair professional comment.
- V. Report any concerns to the appropriate governing body.

- We are strictly against the plagiarism & cheating.
- We Prefer team work on cheating.
- Teamwork is important in engineering, but free-riding is wrong, since if everyone did it nothing would get done.
- Submitting someone's work as your own is a kind of cheating.
- One obvious type of cheating that we all recognize is copying someone's work on a homework assignment, exam, or paper.
- Cheating, copying, multiple submission, unauthorized sources, altering grades, surrogates these all are the type of cheating which is illegal and immoral and completely wrong. We are strictly against these type of things. Academic point of view these are wrong.
- It is wrong because If too many people cheat at (INU), then the degrees awarded by (INU) won't certify that its students are competent. So, by cheating you not only hurt yourself, you also hurt others.

Social Life:

- In my social life I try to respect other people.
- Respect my elders (My family members).
- Respect my teachers.
- Try to treat everyone equally.
- I have to Pray five time a days.
- Complete my all works on time
- Try to help others.
- Follows the law (rule & regulation) which is applied by the government.
- Guide other for the right.

Thank You!