



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 4 Examination in Engineering: January 2022

Module Number: IS4307

Module Name: Technology and Society

[Three hours]

[Answer all questions]

Q1. Explain any three of the following; 200 words, 4 marks each

- After the gift of life, technology is the greatest of God's gifts. It is the mother of civilizations, of arts and of sciences.
- Since the beginning of civilization each society has contributed some form of technology to help improve living.
- Early technological advancements influenced trade and growth through interaction between people and their environment.
- The development of agriculture allowed a surplus of food which ultimately led to occupations and social hierarchy.

Q2. Discuss any three of the following; 200 words, 4 marks each.

- Today the Engineers and Technocrats have an unprecedented opportunity to create technology for a better world.
- Technology is changing our lives and the future looks much brighter, thanks to technology advancements.
- The industrial revolution, fossil fuels and man's conquest of nature has created many complex problems.
- Engineers need to show more responsibility towards protecting the environment and sustainable living.

Q3. Describe any three of the following; 200 words, 4 marks each.

- Engineering education needs to focus more on professionalism and ethics.
- The six pillars; trustworthiness, respect, responsibility, fairness, caring and citizenship direct us to ethical living.
- Technology is always borne of the desire to create bigger, better and more productive things.
- Modern technology grew out of scientific and industrial research & development in the twentieth century.

Q4. Comment on any three of the following; 200 words, 4 marks each.

- a. Morality, ethics and legality are about right & wrong, commands respect for persons, and tolerance of diversity.
- b. Sustainability is about our moral obligation to future generations.
- c. Engineers as creative problem solvers are better equipped to address environmental and poverty issues.
- d. The world has become smaller, better and more responsive thanks to technology.

Q5. Write notes on any three of the following; 200 words, 4 marks each.

- a. Engineering students need to discover and extend their knowledge through lifelong self-learning.
- b. Graduate attributes are capabilities and characteristics of graduates as agents of social good for future.
- c. Online learning which gives flexibility to learn while managing other tasks is a blessing for the spread of education.
- d. Success and failure are intertwined. How we react to failure can teach us many lessons in4565 facing life.