



# UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 5 Examination in Engineering: December 2020

Module Number: IS5101

Module Name: Engineering Ethics

[Three hours]

[Answer all questions, each question carries twelve marks]

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Q1. Explain the following; (about 200 words per each)

- a) Engineering Ethics is the study of morally desirable decisions and policies in engineering practice. [4 Marks]
- b) Engineering ethics sets the standards for professional practice, and is an essential part of engineering education. [4 Marks]
- c) Learning ethics increases sensitivity to ethical issues and enable learners to resolve ethical problems. [4 Marks]

Q2. Discuss the following; (about 200 words per each)

- a) Morality involves being fair and just, meeting obligations and respecting rights and not causing unnecessary harm. [4 Marks]
- b) The virtues represent excellence in moral behavior. They involve motives, attitudes and emotions. [4 Marks]
- c) A code of ethics function as a commitment by the profession of engineers to serve the public health, safety and welfare. [4 Marks]

Q3. Describe the following; (about 200 words per each)

- a) Graduate attributes shape the contribution graduates are able to make to their profession and society. [4 Marks]
- b) Engineers must be aware of fundamental ethical values and principles such as protection of the public health, safety, and welfare. [4 Marks]
- c) Most Engineering Faculties introduce professionalism and ethics modules today to fulfill accreditation requirements. [4 Marks]

Q4. Write notes on the following; (about 200 words per each)

- a) Trustworthiness, Respect, Responsibility, Fairness, Caring and Citizenship constitute the ground rules of ethical decision-making. [4 Marks]
- b) Engineers need to show some responsibility towards protecting the environment and should be ethical in their approach. [4 Marks]
- c) Control of population growth and consumption are the best sustainable policies. [4 Marks]

Q5. Comment on the following: (about 200 words per each)

- a) In today's world, moral duty to society can get overshadowed by financial considerations.. [4 Marks]
- b) It is important for engineers to appreciate ethics and social responsibility in an international context. [4 Marks]
- c) The main criteria of a profession involves advanced expertise, self-regulation and public good. [4 Marks]