



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 3 Examination in Engineering: March 2026

Module Number: IS 3307

Module Name: Society and the Engineers (C18)

[Three Hours]

[Answer all questions, Each question carries 12 Marks]

Q1. Discuss any three of the following: [250 words each] [4x3 = 12 Marks]

- Engineering undergraduates should acquire sufficient engineering knowledge to be a competent professional engineer in the future.
- The use of engineering tools is essential to the success of engineering profession.
- Since leadership is essential for engineers, engineering undergraduates should utilize the available opportunities within the university to develop their leadership skills.
- Engineers will become engineering managers in their workplaces with time. So, good knowledge of Economics and Management is essential.

Q2. Describe any three of the following: [250 words each] [4x3 = 12 Marks]

- Design engineers should be creative.
- When designing engineering components, it is not enough to just satisfy technical specifications. There are many other aspects to consider.
- Engineers are problem solvers who should solve problems in a systematic way.
- Engineers should not create additional problems for society when delivering their services/products.

Q3. Comment on any three of the following: [250 words each] [4x3 = 12 Marks]

- An unethical engineer can do significant harm to the community.
- Can engineers support the country's development by taking up leadership roles such as President, Prime Minister or Cabinet Ministers in Sri Lankan government?

- c. Public funds are being wasted on most projects in Sri Lanka. Engineers should not support and contribute to such projects.
- d. Professional Engineers should try their best to reduce the environmental impacts arising from their engineering work.

Q4. Discuss any **three** of the following: [250 words each] [4x3 = 12 Marks]

- a. Engineers should think practically in their engineering practice.
- b. Engineers have a huge responsibility to maintain a healthy and safe workplace for their workforce.
- c. Engineers should incorporate the concept of sustainability into their works which has environmental, economic and social dimensions.
- d. Legal knowledge on intellectual property is essential for engineers.

Q5. Discuss any **three** of the following: [250 words each] [4x3 = 12 Marks]

- a. Competent engineers possess both technical knowledge and effective communication skills.
- b. Engineering students should identify their weaknesses in the communication process to improve their communication skills and fluency in English.
- c. Preparing a presentation and delivering it effectively to an audience is not a simple and easy task. There are many factors to consider.
- d. Technology is changing rapidly. Therefore, engineers should develop lifelong learning and independent learning skills.