



## **UNIVERSITY OF RUHUNA**

### **Faculty of Engineering**

End-Semester 3 Examination in Engineering: March 2026

**Module Number: IS 3322**

**Module Name: Society and the Engineers (C23)**

**[Three Hours]**

**[Answer all questions, Each question carries 12 Marks]**

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

- a. Multidisciplinary knowledge is increasingly important for engineers in solving complex real-world problems.
- b. Engineers can take advantage of opportunities within the university to enhance their teamwork skills, which are essential for success in the professional world.
- c. Engineers should carry out engineering projects while closely monitoring their impacts on society and the environment.
- d. Engineers will eventually take on managerial roles in their workplaces. Therefore, a strong understanding of economics and management is essential.

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

- a. Workplace diversity enhances creativity and innovation within engineering teams.
- b. When designing engineering components, merely meeting technical specifications is not enough; many other important factors must also be considered.
- c. The 8D methodology can be used by engineers to solve engineering problems in a systematic way.
- d. Engineers should ensure that their services and products do not create additional problems for society.

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

- a. Engineers must be accountable for failures in engineering systems and projects.
- b. Engineering undergraduates who habitually forge signatures in lectures are likely to engage in similar unethical behaviors in the future.

- c. Engineers shall give evidence, express opinions or make statements in an objective and truthful manner.
- d. 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 have a huge responsibility to maintain a healthy and safe workplace for their workforce.
- b. The integration of digital technologies, such as AI, IoT, is transforming the engineering profession.
- c. Awareness of various laws and regulations is essential for engineers to perform their duties effectively in the workplace.
- d. Engineers play a vital role in achieving sustainable development.

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

- a. Both technical knowledge and effective communication skills are essential for becoming a competent engineer.
- b. Engineering students should identify their communication weaknesses to improve their skills and fluency in English.
- c. Preparing a presentation and delivering it effectively to an audience is not a simple task; there are many factors to consider.
- d. Engaging on LinkedIn enhances the lifelong and independent learning skills of engineers.