



UNIVERSITY OF RUHUNA

Faculty of Engineering

Mid Semester 3 Examination in Engineering: June 2014

Module Number: IS 3305

Module Name: Society and the Engineer

[Two Hours]

[ Answer both questions, each question carries 10 marks ]

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- Q1. Describe any four of the following : [ 250 words each ; 2.5x 4 =10 Marks]
- The engineer is the key figure in the material progress of the world.
  - Engineers play a leadership role to make a positive difference in the society.
  - The wonderful progress of mankind during the last 200 yrs is essentially due to the effort of engineers.
  - Engineers actively engage in the creative process of idea generation and problem solving to make a better world through change.
  - Open-ended problem solving is a skill that is central to engineering practice.
- Q2. Discuss any four of the following : [ 250 words each ; 2.5 x 4=10 Marks]
- Safety, health, and welfare of the public are paramount in engineering practice.
  - Engineers need to be socially responsible when building products and processes for society.
  - Engineering profession works through self-regulation, self-imposed standards and adherence to ethics.
  - Teamwork is the spark that allows common people to attain uncommon results.
  - All engineering designs involve some risk and uncertainty.