



# UNIVERSITY OF RUHUNA

## Faculty of Engineering

End-Semester 4 Examination in Engineering: November 2016

Module Number: IS4302

Module Name: Technology and Society

[Three Hours]

[Answer all questions, each question carries 15 marks]

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- Q1. Write essays on any four of the followings (about 200 words each)
- Technological inventions change the history and culture of the society
  - Technological development strongly influences on environmental stress
  - Failures lead to the technological success
  - Scientific Revolution changed both science and thought
  - Technology has made modern society, but it is negatively affected to family relationship
- Q2. Discuss any four of the followings (about 200 words each)
- Logical arguments can be in two varieties: deductive reasoning and inductive reasoning
  - Experimental Method is usually considered as the most scientific of all methods
  - Modern Technology made our life easy, but it resulted in making our life lazy.
  - Technology creates economic divisions in the society
  - Technology can solve the energy crisis in the world

Q3. Explain any four of the following (about 200 words each)

- a) Technology is the fuel that drives our lives. It has brought luxury in the life of every common man.
- b) After the gift of life, technology is the greatest of God's gifts. It is the mother of civilizations, of arts and of sciences.
- c) Technology has eliminated space and time constraints in education. Computers have made the process of learning and knowledge sharing, a more interactive and a pleasurable experience.
- d) Technology has improved the lives of the people, there is more leisure, more speed and less effort, but it has sidelined 'patience' from our lives.
- e) Technological development may make some aspects of our lives better, but it can never substitute for a just and effective political and social system.

Q4. Write notes on any four of the following (about 200 words each)

- a) Poverty is not only about lack of wealth to have a decent standard of living; it also means inability to lead a creative and healthy life, to acquire knowledge, to have freedom, dignity, and self-respect.
- b) Democratic principles such as transparency, public participation, and accountability, are often absent in developing countries where poverty is greatest.
- c) In a sustainable and equitable society, technology will support and enhance a "good life" for all citizens, without compromising the Earth's ecosystem or prospects of future generations.
- d) Current patterns of consumption and production are environmentally unsustainable and socially inequitable.
- e) Moving from irresponsible over consumption to responsible under consumption is not possible while the world is controlled through greed and self-indulgence.