



# UNIVERSITY OF RUHUNA

## Faculty of Engineering

End-Semester 4 Examination in Engineering: December 2018

Module Number: IS4302

Module Name: Technology and Society

[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 ]

- Engineers should understand the role of technology in society.
- Technology means not always electronic systems and methods.
- Evolution of technology which began from the stone age has changed the life style of people.
- Invention of the computer created an information technology era.

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

- Modern technology made our life easy, but it resulted in making our life lazy.
- Modern medical technologies help to resolve a lot of health issues of humans.
- E-learning education systems have both positive and negative impacts on learners.
- Development of Internet technology has created several social problems.

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

- There are different types of technology adopters in the society.
- Mature technologies are vulnerable to substitution or obsolescence with the passage of time.
- Technology can be used to solve the energy crisis in the world in an environmentally friendly way.
- The paperless office is a sustainable initiation for the future world.

Q4. Discuss any **three** of the following : [ 250 words each]

[4x3 = 12 Marks]

- a. Technological failures that happened in the past teach us lessons.
- b. Engineers have a huge responsibility to minimize the environmental impact originating from different technologies.
- c. Engineers should utilize different technologies in an ethical manner.
- d. People who do not have access to computing technology have to face several disadvantages when compared with others.

Q5. Discuss any **three** of the following : [ 250 words each]

[4x3 = 12 Marks]

- a. Effective communication skills are becoming more important than ever for future engineers.
- b. People who deal with technology like engineers and technologists should have self learning and life-long learning practices.
- c. Technology Forecasting creates new dimensions in future technology.
- d. Modern Technology has changed human relationships in both good and bad ways .