



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 4 Examination in Engineering: December 2022

Module Number: IS 4307

Module Name: Technology & Society

[Three Hours]

[Answer all questions, Each question carries 12 Marks]

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

- 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.
- Technology means not always electronic systems and methods.
- Engineers should understand the role of technology in society.

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

- 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.
- Modern technology made our life easy, but it resulted in making our life lazy.

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

- 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.
- There are different types of technology adopters in the society.
- Mature technologies are vulnerable to substitution or obsolescence with the passage of time.

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

- People who do not have access to computing technology have to face several disadvantages when compared with others.

- b. Engineers should utilize different technologies in an ethical manner.
- c. Technological failures that happened in the past teach us lessons.
- d. Engineers have a huge responsibility to minimize the environmental impact originating from different technologies.

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

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