THE OPEN UNIVERSITY OF SRI LANKA
25 FEB 2023
EXAMINATION DIVISION
066

The Open University of Sri Lanka
Faculty of Engineering Technology
Department of Electrical and Computer Engineering

Study Programme	: Bachelor of Technology Honours in Engineering/ Bachelor of Software Engineering Honours
Name of the Examination	: Final Examination
Course Code and Title	**: EEM6201 Professional Practice/ EEM6202 Professional Practice**
Academic Year	: 2021/22
Date	: **25th February 2023**
Time	: 0930-1230hrs
Duration	: **3 hours**

General Instructions

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **Five (5)** questions in **Three (3)** pages.
3. Answer **All** questions. Each question carries equal marks.
4. Answer for each question should commence from a new page.
6. This is a Closed Book Test **(CBT).**
7. Answers should be in clear hand writing.
8. Do not use red colour pen.

Question 01 (20 Marks)

(a) Briefly explain the positive social and ethical impacts of the following advancements in IT.

i. Artificial Intelligence
ii. Social Networking (08 marks)

(b) "There are negative social and ethical impacts due to the advancements of IT". State whether you agree or disagree with the above statement. Justify your answer with appropriate examples. (06 marks)

(c) Briefly explain your role as an IT professional in order to minimize the negative impacts due to advancements in IT. (06 marks)

Question 02 (20 Marks)

(a) Briefly explain the role of professional bodies in the IT field. (06 marks)

(b) Explain four important areas covered in Code of Conduct in any selected IT professional body. (08 marks)

(c) Briefly explain the impact of a Code of Conduct in IT professional bodies in minimizing social, ethical and legal issues. (06 marks)

Question 03 (20 Marks)

(a) Briefly explain what is meant by intellectual property with examples for intellectual properties. (06 marks)

(b) Briefly explain two methods used for protecting intellectual property rights with appropriate examples. (08 marks)

(c) Briefly explain two methods used for protecting intellectual property of software. (06 marks)

Question 04 (20 Marks)

(a) Impact of Digital Divide in Sri Lanka was demonstrated during the COVID-19 pandemic period. Briefly explain how Digital Divide affected Sri Lanka.

(06 marks)

(b) "Information privacy has benefits as well as harmful consequences". Discuss this statement with appropriate examples.

(06 marks)

(c) Briefly explain the impact of Globalization on Sri Lankan society.

(08 marks)

Question 05 (20 Marks)

(a) "Information Technology has had an impact on the environment that is both positive and negative. The use of computers affects the environment in different ways". Justify the above statement using appropriate examples.

(06 marks)

(b) Briefly explain three suggestions that can be implemented for eliminating the negative impacts of Information Technology on the environment.

(06 marks)

(c) What is a Data Protection Act. Briefly explain four areas covered by a Data Protection Act.

(08 marks)

---END OF THE PAPER---