



# SLIATE

**SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION**

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

**Higher National Diploma in Information Technology**  
**Second Year, Second Semester Examination – 2016**  
**HNDIT2403 / IT4003 – Professional Issues in IT / IT and Society**

Instructions for Candidates:  
**Answer four questions only.**  
**All questions carry equal marks.**

No. of questions : 05  
No. of pages : 03  
Time : Two (02) hours

**Question 01.**

- i. State three fields which have been changed due to integration of information technology and mention two uses of information technology in each field. (06 marks)
  - ii. Information technology (IT) has both positive and negative effects to the students.
    - a) List three (03) negative effects of IT to the students. (03marks)
    - b) List three (03) positive effects of IT to the students. (03marks)
  - iii. Briefly explain the following terms related to global workforce. (06 marks)
    - a) Outsourcing
    - b) Offshoring
    - c) Inshoring or Onshoring
  - iv. Explain the difference between law and ethics. (03 marks)
  - v. Ethical views can be divided into 3 categories as Deontological, Utilitarianism and Natural rights. Briefly explain two (02) of them. (04 marks)
- (Total 25 marks)**

**Question 02.**

- i. In using information technology, everybody wish to protect privacy. Mention three (03) aspects of privacy. (03 marks)
- ii. Briefly explain three (03) of the following terms in relation to computer data. (06 marks)
  - a) Invisible information gathering
  - b) Secondary use

- c) Computer matching
- d) Computer profiling
- iii. Explain the way the concept of computer hacking changed over time from early 1960's up to today. (09 marks)

iv. Consider the following statements.

Statement 1: "If the owners of a computer system want to keep outsiders out, it is their responsibility to provide better security."

Statement 2: "Breaking into a computer system can be considered as same as breaking into a neighbor's house. It should not matter that the neighbor's door is locked or unlocked."

Decide the correct statement, giving reasons to prove your answer. (03 marks)

- v. A company that supplies filtering software to schools (to block access of websites with violence or pornography) has sold statistical data about the Web sites visited by school children, to a third party. Critically discuss this incident. (04 marks)

(Total 25 marks)

#### Question 03.

- i. Briefly describe three (03) requirements of forming laws for the field of Information and Communication Technology. (06 marks)
- ii. Mention three (03) key provisions relevant to IT systems defined under Intellectual Property Act No. 36 of 2003. (06 marks)
- iii. The Computer Crime Act 24 of 2007 specifies three broad categories of computer crimes. Briefly explain these categories. (06 marks)
- iv. Define the term anonymity. (03 marks)
- v. Explain pros and cons of protecting anonymity on the internet. (04 marks)

(Total 25 marks)

#### Question 04.

- i. a) What do you mean by the term intellectual property? (02 marks)
- b) Types of intellectual property rights relevant to software can be given as Copyrights, Patents, Marks, Designs and Trade Secrets. Briefly explain three (03) of them. (06 marks)
- ii. a) What is NIPO of Sri Lanka? (02 marks)
- b) Mention the responsibility of NIPO of Sri Lanka. (02 marks)

- iii. State three (03) international organizations, which administer certain areas of Intellectual Property. (03 marks)
- iv. "Digital technology and the Internet has made copyright violation easier and cheaper".
- a) Do you agree with this? (01 marks)
- b) Give reasons to prove your answer. (03 marks)
- v. a) Mention two (03) possible health problems arise due to IT industry.(03 marks)
- b) Briefly explain how those problems can be avoided. (03 marks)
- (Total 25 marks)**

**Question 05.**

- i. a) Describe the term "computer crime." (04 marks)
- b) List four (04) examples for computer crimes. (04 marks)
- ii. People use various techniques in stealing personal and financial information in the web. Briefly explain the following techniques. (04 marks)
- a) Phishing
- b) Pharming
- iii. State three (03) techniques to protect your personal and financial information in case of online shopping. (06 marks)
- iv. List two (02) examples for digital forgery. (02 marks)
- v. Explain the term 'Net neutrality' and state the purpose of it. (05 marks)
- (Total 25 marks)**

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