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 – 2017.

HNDIT2403/IT4003 - Professional Issues in IT/ IT and Society

Instructions for Candidates:	
Answer any four (04) Questions	No. of questions : 05
All questions carry equal marks	No. of pages : 03
	Time: Two (02) Hours

Question 01

i. Fill in the blanks using the list of answers given within brackets. (12 marks)

(Java, Johnvon Neumann, tablet, bit, Shakey, desktop, Plankalkul , IBM 1301)

  a. .... was the first algorithmic programming language created by Konrad Zuse.

  b. The "First Draft of a Report on the EDVAC" written by .... outlining the architecture of stored program computer was distributed in 1945.

  c. In 1948, ... is identified as the fundamental unit of data and as the fundamental unit of computation.

  d. .... disk drive was the first form of modern DVD's and CD's.

  e. .... was the first mobile robot with artificial intelligence made by SRI International in 1970.

  f. In 1976, 5 1/4 inch flexible disk drives were developed in order to fit into .... computers.

ii. "Today the Internet has become the Second life of the humans ". Prove this statement using three examples. (06 marks)

iii. What are the challenges of evaluating correct Information on the Web? (03 marks)

iv. Information Technology affects for Creation and Destruction of jobs.

  a. List two (02) jobs created by IT. (02 marks)

  b. List two (02) jobs being destructed by IT. (02 marks)

(Total 25 marks)

Question 02

i. Name three ethical views. (03 marks)

ii. What does it meant by **"Professional Ethics"** ? (03 marks)

iii. Briefly explain the purpose of *Intellectual Property Act No. 36 of 2003* in Sri Lanka.

(06 marks)

iv. Briefly explain three Broad Categories of Computer Crimes mentioned under *Computer Crime Act No. 24 of 2007* in Sri Lanka (09 marks)

v. COPA and CIPA are two Acts protecting child in the Internet.

    a. Expand these abbreviations

    b. Mention how the child is protected by each Acts. (04 marks)

(Total 25 marks)

Question 03

i. Briefly explain two (02) forms of copy right. (04 marks)

ii. Briefly describe how copy rights protect the author since he/she is an employee. (Assume that the author has invented new software module for the project which is being handled by the company.) (04 marks)

iii. A patent protects inventions from copying. List two (02) other benefits of a patent except protecting the inventions. (04 marks)

iv. NIPO of Sri Lanka offers protection for four (04) kinds of marks. Briefly explain them. (08 marks)

v. Computer users face different types of health problems.

    a. What does it meant by *Carpel Tunnel Syndrome?* (02 marks)

    b. State three (03) practices to avoid the *Carpel Tunnel Syndrome* (03 marks)

(Total 25 marks)

Question 04

i. Mention two (02) high level causes of Computer System failures. (04 marks)

ii. State two (02) things done by *Silver Surfers* to decrease their depression. (04 marks)

iii. State three (03) factors which would affect reliability and safety of an information system. (06 marks)

iv. Briefly describe the following terms. (08 marks)

    a. Invisible information gathering

    b. Secondary use

       c. Data mining

       d. Computer matching

v.   "Young people put less value on privacy than previous generations in the Internet".

       a. Do you agree with this?   (01 marks)

       b. Explain your answer.   (02 marks)

(Total 25 marks)

Question 05

i.   Explain given five moral principles in **Code of Ethics** *by American Counselling Association* (ACA).   (10 marks)

       a. Autonomy

       b. Justice

       c. Beneficence

       d. No maleficence

       e. Fidelity

ii.   Mention the main responsibilities of following professional bodies.   (04 marks)

       a. *BCS*

       b. *IEEE*

iii.   Describe the primary objectives of *Computer Society of Sri Lanka* (CSSL). (06 marks)

iv.   Write down the names of the international professional bodies denoted by following abbreviations.   (05 marks)

       a. AITP

       b. ISACA

       c. IIA

       d. AOMC

       e. AAT

(Total 25 marks)