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 – 2019
HNDIT2403/IT4003 - Professional Issues in IT/IT and Society

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

Question 01

I.   List three new developments in **Health field** due to Information Technology.

(03 marks)

II. How does Information Technology help collaboration? (04 marks)

III. What are the positive effects of Computer Technology? (06 marks)

IV. Write short notes for the following.

   a. Plankalkul (1945) (03 marks)

   b. ENIAC (1946) (03 marks)

   c. Shakey (1970) (03 marks)

   d. Computer Generated Special Effects (1982) (03 marks)

(Total 25 marks)

Question 02

I.   How does computer help the employer at their company? (04 marks)

II. Name two vulnerable viewers of the Web? (02 marks)

III. What is the **Telecommuting**? Discuss two benefits of the **Telecommuting**.

(06 marks)

IV. Explain **Natural rights** ethical view. (04 marks)

V.   What are the **Exclusive rights** of a software according to *Intellectual Property Act No. 36 of 2003* in Sri Lanka? (04 marks)

VI. Discuss **Content Related Cybercrime** with three examples according to *Computer Crime Act 24 of 2007* in Sri Lanka. (05 marks)

(Total 25 marks)

Question 03

I. Fill in the blank using given word(s) below.   (02 marks x 10)

(National Intellectual Property Office of Sri Lanka, De-regulation, Child Online Protection Act of 1998, Computer Crime Act 24 of 2007, Children's Internet Protection Act of 2000, Goods, Services, Web server, Anti-spam Laws, Computer Society of Sri Lanka, Anonymous, twenty years, trade secrets, Phishing, Economic rights, Internet Service Providers)

a. .... : speech is protected by supreme court principles and guidelines.

b. .... : Filters were used to block sites with specific words, phrases or images for protecting children.

c. ....: can control commercial spam e mails.

d. .... in US and European countries must keep true identity of user online activities for preventing problems of anonymity.

e. ....: Flexibility and market incentives (motivating) will benefit customers.

f. Copyrights, patents, marks, designs and .... are intellectual property rights relevant to software.

g. .... protects for copyrights, patents, marks and industrial designs in Sri Lanka.

h. .... and Moral rights are two forms of copy rights.

i. A patent is a .... exclusive monopoly on the right to make, use and sell a qualifying invention.

j. The Service mark is related to ....

II. List five steps you could follow for preventing pain of the spine and neck when you would use the computer long time.   (05 marks)

                                                                   (Total 25 marks)

Question 04

I. Explain **Digital Divide**. State three suggestions for reducing the Digital Divide.

                                                                   (05 marks)

II. What is the **Brainstorming**? List three types of people who would participate with the brainstorming.

                                                                   (05 marks)

III. Why do computer professionals study failures and errors in computer systems? State three factors for computer systems failure. (05 marks)

IV. a. What are the majority usage of the *Silver Surfers* on the Web? (04 marks)

b. Explain how *Silver Surfers* would reduce their depression level in the Internet?

(06 marks)

(Total 25 marks)

Question 05

I. Explain about **Secondary use** and **Data mining**. (04 marks)

II. How do you apply **Informed consent** principle for health care provider and patient? (05 marks)

III. What is the **Global Positioning Systems**? List three services of Global Positioning Systems. (06 marks)

IV. How do professional bodies develop professional education programs? (05 marks)

V. List three local and two international professional bodies (Abbreviations are not considered). (05 marks)

(Total 25 marks)