



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 Tourism and Hospitality Management

First Year, First Semester Examination – 2017

HNDTHM 11053 – Information Technology I

Instructions:

Answer all questions from Part A and three questions from Part B.

No. of questions : Part A: 04 & Part B: 04

No. of pages : 04

Time : Three hours

Part A

Question 1.

[Total 10 Marks]

(i) What is a computer?

(03 Marks)

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(ii) Write down three (03) characteristics of a computer.

(03 Marks)

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(iii) State four (04) fields that use the computers widely. (04 Marks)

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Question 2.

[Total 10 Marks]

(i) Convert the followings into decimal numbers. (06 Marks)

- a. $C721_{16}$ b. 550_8

.....
.....
.....

(ii) Calculate the followings. (04 Marks)

- a.
$$\begin{array}{r} 1110111 \\ + 111001 \\ \hline \\ \hline \end{array}$$
 b.
$$\begin{array}{r} 1011011 \\ - 110001 \\ \hline \\ \hline \end{array}$$

Question 3.

[Total 10 Marks]

(i) Write down the types of networks. (03 Marks)

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(ii) What are the advantages of the Internet? (03 Marks)

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(iii) Define the term “Search Engine” and write down two (02) examples . (04 Marks)

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Question 4.

[Total 10 Marks]

(i) What are the two (02) main parts of a system unit? (02 Marks)

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(ii) What are the two (02) main two categories of storage devices? State two (02) examples for each. (04 Marks)

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(iii) List four (04) types of computers which are designed to use by an organization. (04 Marks)

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Part B

Question 1

[Total 20 Marks]

- I). What is meant by a system unit? (02 Marks)
- II). What are the differences between volatile and non-volatile memory? (04 Marks)
- III). Briefly explain the purpose of Arithmetic & Logical Unit (ALU) and Control Unit (CU)? (04 Marks)
- IV). Draw and label the complete block diagram of the computer and mention two examples of input, output and storage devices. (10 Marks)

Question 2.

[Total 20 Marks]

- I). What is computer software? (02 Marks)
- II). What are the two (02) main types of software? Briefly explain them. (06 Marks)
- III). Specify two (02) types of “language translators” and explain them briefly? (06 Marks)
- IV). Compare and contrast the open source software and proprietary software. (06 Marks)

Question 3.

[Total 20 Marks]

- I). What do you mean by “Computer Networks”? (02 Marks)
- II). Briefly describe the network types according to the coverage area. (06 Marks)
- III). State any four (04) types of network topologies except Mesh Topology. (04 Marks)
- IV). Draw a layout of Mesh Topology and give two (02) advantages and disadvantages of it. (08 Marks)

Question 4.

[Total 20 Marks]

- I). State four (04) uses of Internet in tourism industry. (04 Marks)
- I). How do web browsers differ from web servers? (04 Marks)
- II). What is the role of protocols in the application of Internet and name three (03) protocols which are frequently used ? (06 Marks)
- III). Briefly explain the followings: (06 Marks)
 - (a). Email
 - (b). WWW
 - (c). Social networking