



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

First Year, First Semester Examination – 2017

HNDIT1106- Web Development

Instructions for Candidates:

Answer four (04) questions **including question 01**

All questions carry equal marks

No. of questions : 05

No. of pages : 04

Time : Two (02) hours

Question 01

- (i) Select the most suitable answer from the given list and fill in the blanks.
- a. A..... is a collection of computers and devices interconnected by communications channels that facilitate communications among users and allow users to share resources.
 - b. The is a pattern of network communication in which clients send requests to servers over a computer network and the servers send responses to clients.
 - c. The..... is the largest communication network ever conceived in the world.
 - d. In addition to an IP address, most Internet hosts or servers have address, which uses words.
 - e. is a part of the Internet, which supports hypertext documents, allowing users to view and navigate different types of data
 - f. is an example for web server.
 - g. is a client side language which can be used for designing the statistic web pages.
 - h. is a specialized service that lets you use one computer to access the contents of another computer.
 - i. is the protocol for exchanging files over the Internet which uses the Internet's TCP/IP protocols to enable data transfer.
 - j. is a service that allows users to communicate in real time by typing text in a special window.

(2x10=20 marks)

(Client-server model, WWW, Telnet, FTP, IRC, HTTP, Apache, PHP, Samba Network, Internet, HTML, a Domain Name System (DNS), Internet service providers)

- (ii) State whether the following sentences are **True** or **False**.
- Customers should consider bandwidth and cost before selecting an Internet package (.....)
 - Internet Service Providers do not allow organizations and individuals to publish information on the Internet. (.....)
 - ISDN stands for Integrated Server Digital Network. (.....)
 - With leased connection, your computer will be directly connected to the Internet using a dedicated transmission line. (.....)
 - Hotspots are sites that offer Internet access over a wireless local area network (WLAN) by using a router connected to an Internet Service Provider. (.....)

(05 marks)

(Total 25 marks)

Question 02

- (i)
- Explain the purpose of TCP/IP protocol. (02 marks)
 - List three (03) other protocols frequently used in the Internet. (03 marks)
- (ii) Compare and contrast Static and dynamic web sites. (06 marks)
- (iii)
- Briefly describe collaborative website concept. (02 marks)
 - Write two examples for collaborative web sites. (02 marks)
- (iv)
- Briefly explain the term “electronic commerce”. (02 marks)
 - List three (03) features of an ecommerce site (03 marks)
- (v) Social networking becomes more popular among Internet users.
- List two(02) example for social networks. (02 marks)
 - Describe three (03) benefits of using social networks. (03 marks)

(Total 25 marks)

Question 03

- (i) List three goals of computer security. (03 marks)
- (ii) Explain the difference between hackers and crackers. (04 marks)
- (iii)
- What do you mean by the term ‘computer virus’? (02 marks)
 - List two (02) symptoms of a computer virus attack. (04 marks)
- (iv) A password can be used for user authentication to access some secured resources in the web.
- List three (03) best practices that you can apply in creating strong passwords. (03 marks)
 - Explain the following two types of attacks on passwords. (04 marks)
 - Brute force attack
 - Dictionary attack
- (v)
- Briefly explain the term “Identity theft”. (03 marks)
 - List two (02) steps that you can take to prevent identity theft. (02 marks)

(Total 25 marks)


Question 04

- (i) Briefly explain following concepts and give two (02) examples per each. (08 marks)
- Web browser
 - Search engine
- (ii) State two attributes for each of the following HTML tags. (06 marks)
-
<TABLE>

- (iii) Write HTML Code to generate the web page given bellow. (11 marks)
- (Consider that the name of the picture is "logo.jpg" and the link connects to the page <http://www.sliate.ac.lk>)

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Question 05

- (i)
- What does CSS stand for? (02 marks)
 - Briefly explain the purpose of using CSS in creating web sites. (02 marks)
- (ii) Describe the purpose of using HTML Frames. (03 marks)
- (iii) Sketch the output of the following code segment. (08 marks)

```
<TABLE Border="2" Align="Center" Width=50% Cellpadding="10">
```

```
<TR> <TH Colspan="3">HNDIT 1st year Semester I</TH></TR>
```

```

<TR><TH>Module Code</TH> <TH>Modulc Type</TH> <TH>Credits</TH> </TR>
<TR><TD>HNDIT 1201 </TD><TD>Database Management
Systems</TD><TD>02</TD></TR>
<TR><TD>HNDIT 1202 </TD><TD>Computer Hardware</TD> <TD>02</TD></TR>
<TR><TD Colspan="2" Align="Center">Total</TD><TD>04</TD></TR>
</TABLE>

```

(iv) Write HTML code to produce the following output. (10 marks)

Exam Application Form

Name with Initials:

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Select Course: HNDIT HNDA HNDE

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