



**SLIATE**

**SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION**

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

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**Higher National Diploma in Information Technology**

**First Year, First Semester Examination – 2016**

**HNDIT1106 / IT1007 – Web Development / Internet Applications**

Instructions for Candidates:

**Answer four questions including question 01.**

**All questions carry equal marks.**

No. of questions : 05

No. of pages : 05

Time : Two (02) hours

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**01.**

- (i). Select the most suitable answer from the given list and fill in the blanks.
- a) In 1969, the computer network called \_\_\_\_\_ started to communicate data using packet switching concept.
  - b) \_\_\_\_\_ is a system of interlinked hypertext documents accessed via the Internet.
  - c) \_\_\_\_\_ is the development and application of shared principles, norms, rules, decision-making procedures and programs that shape the evolution and use of the Internet.
  - d) An international communications standard for sending voice, video, and data over digital telephone lines or normal telephone wires is called as \_\_\_\_\_.
  - e) \_\_\_\_\_ is a networking technology that allows computers and other devices to communicate over a wireless signal.
  - f) No matter what type of computer system you connect to the Internet, if it uses \_\_\_\_\_, it can exchange data with any other type of computer.
  - g) \_\_\_\_\_ is an address to the current location of information.
  - h) In computing, a \_\_\_\_\_ is a reference to a document that the reader can directly follow, or that is followed automatically.
  - i) A \_\_\_\_\_ is a piece of application software that sits on a powerful computer (a server) on the Internet.
  - j) \_\_\_\_\_ is the Internet tool used to copy files from one computer to another.

(2 X10 = 20 marks)

ISDN, ADSL, Internet, FTP, ARPANET, WWW, TCP/IP, IP Address, Internet governance, Hyperlink, WIFI, Wireless, URL, Network, DSL, Hypertext, SDSL, Search Engine, Web Browser
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(ii). State whether the following statements are true or false.

- a) Internet Service Providers are responsible to publish information on the internet. (.....)
- b) The gateway allows the two different types of networks to "talk" to each other. (.....)
- c) Satellite is one of the wireless internet connectivity options. (.....)
- d) ADSL connection has different up and download speeds. (.....)
- e) Wireless WAN uses radio signals to transfer data. (.....)

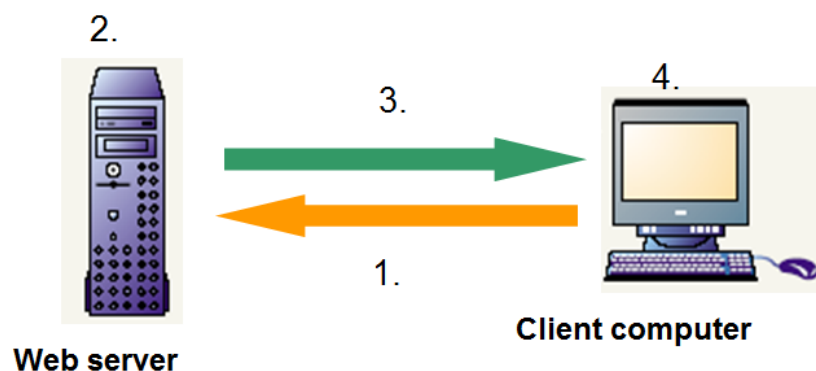
(05 marks)

**(Total 25 marks)**

**02.**

- (i). The World Wide Web and the Internet are not the same thing. Give a definition for each term that makes the distinction clear. (04 marks)
- (ii). Nowadays many web browsers are available.
  - a) What is the purpose of having a web browser? (03 marks)
  - b) List three examples for popular web browsers. (03 marks)
- (iii). Explain the role of DNS in the operation of the Internet. (05 marks)
- (iv). Static web page is a web page with contents that remain fixed and unchanged once it has been created by the author. The following diagram represents architecture of static web site. Name 1 → 4 numbers in the figure given below.

(04 marks)



- (v). Briefly describe the effect of collaborative web in modern information exchange. (06 marks)

**(Total 25 marks)**

**03.**

(i).

- a) What is meant by computer security? (02 marks)
- b) Mention three types of computer security. (03 marks)
- c) List down three goals of computer security and briefly describe each. (06 marks)

(ii).

- a) What do you mean by Malicious Software? (02 marks)
- b) List two forms of Malware. (02 marks)
- c) Write down two symptoms of Virus Attacks. (02 marks)

(iii). Describe the differences between hackers and crackers. (04 marks)

(iv). Write the tools which are available to keep children safe online and explain them. (04 marks)

**(Total 25 marks)**

**04.**

(i). What is Social Networking? Give two examples. (04 marks)

(ii). Practically, there are many limitations of e-commerce.

- a) Give three technological limitations of e-commerce. (03 marks)
- b) Give three non- technological limitations of e-commerce. (03 Marks)

(iii). Compare and contrast traditional trading and e-commerce. (04 marks)

(iv). Consider the following HTML document.

Is this a valid HTML? If not, explain each error and propose a correction.

(05 marks)

```
1 <html>
2 <head> <title>
3 Hello
4 </head> </title>
5 </html>
6 <body>
7 <h3> Text <h3>
8 <boldtext> Example </boldtext>
9 </body>
```

(v). Explain three features of web 2.0 (06 Marks)

**(Total 25 marks)**

05.

- (i). Write the purpose of following HTML tags.
- a) <Strong>
  - b) <Cite>
  - c) <Center>
  - d) <Hr> (04 marks)
- (ii). Rewrite the <BODY> tag with necessary attributes to view the page in yellow color and font in blue color. (02 marks)
- (iii). What is the output of the following code fragment? (06 marks)

```
<html>
<head>
  <title>Cricket for beginners</title>
</head>
<body>
  <h1>Cricket for beginners
  <p>
    Description of cricket goes here...
  </p>
  <h2><a href="rulesofplay.html">Rules of play</a></h2>
  <ul>
    <li>Rules</li>
    <li>Umpires</li>
    <li>scorers</li>
  </ul>
  <h2><a href="teamstructure.html">Team structure</a></h2>
  <ul>
    <li>Batsman</li>
    <li>Bowler</li>
    <li>Captain</li>
    <li>Wicket-keeper</li>
    <li>Fielder</li>
  </ul>
</body>
</html>
```

- (iv). Write HTML codes to display the following table in a web page. (08 marks)

Personal Details		
Name:	Bill Gates	
Telephone:	Office	555 77 854
	Mobile	555 77 855

(v). Write HTML codes to display the following set of frames in a web page.

(05 marks)

F1.html	
F2.html	F3.html
	F4.html
	F5.html

**(Total 25 marks)**