



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

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 X 10 = 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

- (ii). State whether the following statements are true or false.
- Internet Service Providers are responsible to publish information on the internet. (.....)
 - The gateway allows the two different types of networks to "talk" to each other. (.....)
 - Satellite is one of the wireless internet connectivity options. (.....)
 - ADSL connection has different up and download speeds. (.....)
 - Wireless WAN uses radio signals to transfer data. (.....)

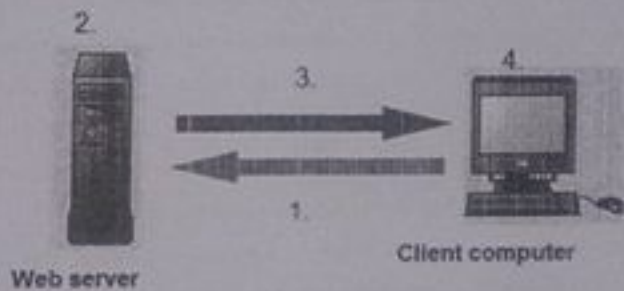
(05 marks)

(Total 25 marks)

02. ✓

- 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)
- Nowadays many web browsers are available.
 - What is the purpose of having a web browser? (03 marks)
 - List three examples for popular web browsers. (03 marks)
- Explain the role of DNS in the operation of the Internet. (05 marks)
- 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)



- 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.
-
 - <Cite>
 - <Center>
 - <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>Rules of play</h2>

 Rules
 Umpires
 scorers

 <h2>Team structure</h2>

 Batsman
 Bowler
 Captain
 Wicket-keeper
 Fielder

</body>
</html>

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

| Personal Details  |            |            |
|-------------------|------------|------------|
| <b>Name:</b>      | Bill Gates |            |
| <b>Telephone:</b> | 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)