FINAL
Examination Paper

(COVER PAGE)

Session : April 2014

Programme : Diploma in Information and Communication Technology (DIC ITN)

Course : ICT1102 : Introduction To Internet Technologies

Date of Examination : July 24, 2014

Time : 2:00pm – 4:00pm  Reading Time: Nil

Duration : 2 Hours

Special Instructions :

Answer any FOUR (4) questions.

Materials permitted :

Nil

Materials provided :

Nil

Examiner (s) : Mr. Eric Sow Seah Kuan, Koh Chong Lin

Moderator : Mr. Victor Raj Kolintiar

This paper consists of 4 printed pages, including the cover page.
Instructions: This paper consists of SIX (6) questions. Answer any FOUR (4) questions in the answer booklet provided. All questions carry equal marks.

Question 1

(a) What is a Uniform Resource Locator (URL)? (2 marks)

(b) List and explain the FOUR (4) steps that are involved in sending and receiving an email message. (8 marks)

(c) Produce the HTML codes for the screen below: (15 marks)

![HTML code for sample form](image)

This is a sample form.

- I'm a checkbox
- Choice A
- Choice B
- Choice C

Pick an option, field:

**OPTION 1**

I'm a dropdown box with Option 1, Option 2, and Option 3.

I'm a small text field

I'm a textarea object.
I can hold a lot more data.

Submit | Clear Form

Question 2

(a) What is an IP (Internet Protocol) address? Differentiate between Static IP and Dynamic IP. (6 marks)

(b) List and explain any TWO (2) boolean operators to perform advance search. (4 marks)
(c) Study the following HTML code and draw the output display as it would appear on a web browser.

```html
<html>
<body>
<table border=40% width=100%>
<caption>
</caption>
<h2>
  IHR PTE LTD STAFF INFORMATION
</h2>
</table>
<tr align=center>
  <th>NAME</th>
  <th>GENDER</th>
  <th>POSITION</th>
</tr>
<tr>
  <td>Benson Ong</td>
  <td>Male</td>
  <td>Course Consultant</td>
</tr>
<tr>
  <td>Michelle Mah</td>
  <td>Female</td>
  <td>General Clerk</td>
</tr>
</table>
</body>
</html>
```
Question 3

(a) Explain the terms below:
   (i) Spiders
   (ii) White pages
   (iii) Meta Search Tools
   (iv) Robot exclusion protocol

(b) Identify and discuss THREE (3) major security problems faced by electronic commerce web sites.

(c) Describe FOUR (4) good practices that HTML designers should follow to ensure that all users get easy access to the information.

Question 4

(a) Name and explain FIVE (5) Internet services that can be useful to a student in University.

(b) Explain the FIVE (5) different ways for a computer to connect to Internet.

Question 5

(a) What is the purpose of E-mail? List and explain THREE (3) types of e-mail server and give one advantage for each of the email server.

(b) Describe the function of <IMG>. Identify and explain any FOUR (4) attributes supported by <IMG>.

(c) Explain FIVE (5) benefits of using electronic mail.

Question 6

(a) Network security is important for organisations. Threats can be originated both internally within the organization and externally from outsiders. Identify FIVE (5) threats in Local Area Network.

(b) You are advised to follow the EIGHT Golden Rules when designing a website. Identify discuss any FIVE (5) rules.

-THE END-