



**FINAL**  
Examination Paper

(COVER PAGE)

Session : April 2014

Programme : Diploma In Information And Communication Technology  
(DICTN)

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.

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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.

## INTI INTERNATIONAL COLLEGE SUBANG

DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY  
 ICT1102: INTRODUCTION TO INTERNET TECHNOLOGIES  
 FINAL EXAMINATION: APRIL 2014 SESSION

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)

The screenshot shows a web browser window with the following content:

- Browser title: Sample Forms
- Address bar: file:///C:/Users
- Form title: This is a sample form.
- Form elements:
  - I'm a checkbox
  - Choice A
  - Choice B
  - Choice C
  - Pick an option, friend!
  - 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.

(15 marks)

```

<HTML>
<BODY>
<TABLE BORDER HEIGHT=40% WIDTH=100%>
<CAPTION>
<H2>
  IHR PTE LTD STAFF INFORMATION
<H2>
</CAPTION>
<TR>
<TD ALIGN=CENTER><TABLE BORDER>
<TR>
<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></TD>
<TD ALIGN=CENTER><TABLE BORDER>
<TR>
<TH>NAME</TH>
<TH>DEPARTMENT</TH>
<TH>LOCATION</TH>
</TR>
<TR>
<TD>Benson Ong</TD>
<TD>Marketing</TD>
<TD>Georgetown</TD>
</TR>
<TR>
<TD>Michelle Mah</TD>
<TD>Admin</TD>
<TD>Bayan Lepas</TD>
</TR>
</TABLE></TD>
</TR>
</TABLE>

```

**Question 3**

- (a) Explain the terms below:
- (i) Spiders
  - (ii) White pages
  - (iii) Meta Search Tools
  - (iv) Robot exclusion protocol
- (8 marks)
- (b) Identify and discuss **THREE (3)** major security problems faced by electronic commerce web sites.
- (9 marks)
- (c) Describe **FOUR (4)** good practices that HTML designers should follow to ensure that all users get easy access to the information.
- (8 marks)

**Question 4**

- (a) Name and explain **FIVE (5)** Internet services that can be useful to a student in University.
- (10 marks)
- (b) Explain the **FIVE (5)** different ways for a computer to connect to Internet.
- (15 marks)

**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.
- (10 marks)
- (b) Describe the function of <IMG>. Identify and explain any **FOUR (4)** attributes supported by <IMG>.
- (5 marks)
- (c) Explain **FIVE (5)** benefits of using electronic mail.
- (10 marks)

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