



FINAL
Examination Paper

(COVER PAGE)

Session : August 2012

Programme : Diploma In Information And Communication Technology (DICTN)

Course : ICT1102 : Introduction To Internet Technologies

Date of Examination : December 10, 2012

Time : 11:00am – 1:00pm Reading Time: Nil

Duration : 2 Hours

Special Instructions :

Answer any FOUR (4) questions.

Materials permitted : Nil

Materials provided : Nil

Examiner (s) : Mr. Koh Chong Lin, Melisa Kaur.

Moderator : Dr. Ahmad Suhaimi Baharudin

This paper consists of 4 printed pages, including the cover page.

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INTI INTERNATIONAL COLLEGE PENANGDIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY PROGRAMME
(DICTN)
ICT1102 : INTRODUCTION TO INTERNET TECHNOLOGIES
FINAL EXAMINATION: AUGUST 2012 SESSION

Instructions: Answer any **FOUR (4)** out of **SIX (6)** questions in the answer booklet provided. All questions carry equal marks.

Question 1

- (a) List **FIVE (5)** types of connections to the Internet. (5 marks)
- (b) Define hotspot? Where can you find it (provide **FOUR (4)** examples)? (6 marks)
- (c) List **FIVE (5)** Internet activities. (5 marks)
- (d) Differentiate between broadband and baseband? (4 marks)
- (e) What is DNS Namespace? (5 marks)

Question 2

- (a) Differentiate between NSPs and ISPs? (3 marks)
- (b) Define peering? (4 marks)
- (c) Explain the following **FIVE (5)** sub-protocol of TCP/IP stacks: (10 marks)
 - (i) UDP (User Datagram Protocol)
 - (ii) Address Resolution Protocol (ARP)
 - (iii) ICMP (Internet Control Message Protocol)
 - (iv) DHCP (Dynamic Host Configuration Protocol)
 - (v) HTTP (Hypertext Transfer Protocol)
- (d) Explain the **FOUR (4)** steps involve in sending and receiving emails. (8 marks)

Question 3

- (a) List **FIVE (5)** benefits of using emails. (5 marks)
- (b) What is an email-client? Give **FOUR (4)** examples of email clients. (6 marks)
- (c) Explain **FOUR (4)** features that can be found in an email client. (8 marks)
- (d) What is Social Media? Give **FOUR (4)** examples. (6 marks)

Question 4

- (a) A book publishing company wants to set up an on-line business. It wants to market and sell its books through the web. Name any **THREE (3)** personnel it needs to recruit in order to accomplish its mission. Briefly explain their job scope. (6 marks)
- (b) Based on your own experience of educational provision on the web, comment on its suitability with respect to delivery of content, student learning and assessment. (6 marks)
- (c) What is an IP Address? (2 marks)
- (d) What is a browser? Give **FIVE (5)** examples of browsers? (6 marks)
- (e) What is a virus? List **THREE (3)** ways how does it spread? (5 marks)

Question 5

- (a) List the **FIVE (5)** search processes. (5 marks)
- (b) Evaluate the **FIVE (5)** credibility of search results? (5 marks)
- (c) Draw the form created by the following HTML code. (15 marks)

```
<HTML><HEAD><TITLE>Sample Forms</TITLE></HEAD>
<BODY>
<H1 ALIGN=CENTER> This is a sample form. </H1>
<FORM ACTION = "../process.php" METHOD="GET">
  <INPUT TYPE ="checkbox" NAME ="cb1" CHECKED>
  I'm a checkbox
  <P>
    <INPUT TYPE ="radio" NAME ="Radio Button 1" VALUE="A">
    Choice A<BR>
    <INPUT TYPE ="radio" NAME ="Radio Button 1" VALUE="B">
    Choice B<BR>
    <INPUT TYPE ="radio" NAME ="Radio Button 1" VALUE="C" CHECKED>
    Choice C
  <P> Pick an option, friend! <BR>
  <SELECT NAME="select1">
    <OPTION> OPTION 1</OPTION>
    <OPTION> OPTION 2</OPTION>
    <OPTION> OPTION 3</OPTION>
  </SELECT>
  </P>
  <INPUT TYPE ="text" NAME="text1" SIZE=30 VALUE ="I'm a small text
  field!">
  <BR/>
  <TEXTAREA NAME ="text2" ROWS=10 COLS=50> I'm a textarea object.
  I can hold a lot more data than a text object and display it easily
  for you including scrollbars.
  </TEXTAREA>
  <BR/>
  <INPUT TYPE ="Submit" VALUE= "Submit">
  <INPUT TYPE = "Reset" VALUE ="Clear Form">
</FORM></BODY></HTML>
```

Question 6

- (a) Explain the terms below: (8 marks)
- (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. (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)

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