DUBLIN INSTITUTE OF TECHNOLOGY KEVIN STREET, DUBLIN 8.

BSc. (Honours) Degree in Computer Science

Year 1

SEMESTER 2 EXAMINATIONS 2011/2012

Web Development I

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Friday 25th May 4.00 p.m. – 6.00 p.m.

Answer question (1) and any two of questions (2), (3), (4)

Question (1) is worth 40 marks. Questions (2), (3), (4) are worth 30 marks each

l. (a) (i)	What is the difference between the Internet and the World-Wide-Web?	
() ()		(4 marks)
(ii)	When configuring an image map, describe the relationship between the <map> and <area/> tags.</map>	<image/> ,
		(6 marks)
(b) (i)	You are designing a survey form for a client. One of the questions has 6 perceptonses. Only one response can be selected per question. What type of felement would you use to configure this question and the Web.	ossible orm
	element would you use to configure this question on the Web page?	(2 marks)
(ii)	Provide the HTML code necessary to create this element in a form.	(4 marks)
(iii)	What does the following frame-set definition mean for a browser win 1000 pixels wide?	dow that is
	<frameset 2*,*'="" 25%,="" 450,="" cols=""></frameset>	(4 marks)
		(
(a) (i)	What Jan HTMI at a 1 C O	
(c) (i)	What does HTML stand for?	(2 marks)
(ii)	Who is making the Web standards?	·
` .		(2 marks)
(iii)	Which type of XHTML list will automatically number the items in the list to support your answer.	Use code
		(6 marks)
(d) (i)	What is correct XHTML for a horizontal line?	(2 1)
		(2 marks)
(ii)	Choose the correct HTML tag for the largest heading	(2 marks)
(iii)	Name three advantages that layers have over tables?	
		(6 marks)

2.	SeaSurfing.com is a surfing equipment renting web-site. The website has a number of
	web pages and uses embedded CSS to style each web page. The site uses an image as
	its background (. The text colour, throughout the web-site,
	is black (#000) and the background colour is white. The web-site uses tables for its
	page layout.

(a) Describe three advantages in using CSS in a commercial web-site?

(6 marks)

- (b) Write the CSS code, to apply the following style characteristics to SeaSurfing.com:
 - Background image Sea.gif
 - Font colour #000

(4 marks)

(c) How would an external CSS file be referenced in a web page?

(6 marks)

(d) Why would it be advantageous to use <u>CSS</u> in an external file rather than <u>embedded</u> <u>CSS</u> in *SeaSurfing.com*?

(6 marks)

- (e) Write the CSS code to apply the following table characteristics to SeaSurfing.com:
 - Text alignment is centre
 - The height of the table should take up the whole page
 - The table has no border
 - The table width is set to 100%

(8 marks)

3. (a) (i) Describe two reasons for using tables in a Web page.

(6 marks)

(ii) Describe two ways that layers can be positioned on a web page?

(6 marks)

(iii) How will the following piece of html code be rendered, and why?

(b) Write the html code for the following tables:

Cell that spans two columns:

Name	Telephone					
Bill Gates	555	77	854	555	77	855

(6 marks)

Cell that spans two rows:

First Name:	Bill Gates
Telephone:	555 77 854
reichnoue:	555 77 855

(6 marks)

4. (a)	What are the possible basic elements in a form?				
		(7 marks)			
(b)	How can form information be sent in an email?	(4 marks)			
(c)	Write the html code for the following form:				
	Please fill in the registration form below: First name: Last name: Gender: Male Female What transport equipment do you have: I have a bike I have a car Submit If you click the "Submit" button, the form-data will be sent to a page called "html_form_action.asp".	d			
		(9 marks)			
(d)	What is the html code for a password box in a form?	(4 marks)			
(e) Form data can be validated using JavaScript. Write a function to validate if the Custome Information Name has been entered.					
		(6 marks)			

