

DUBLIN INSTITUTE OF TECHNOLOGY
KEVIN STREET DUBLIN 8

BSc. (Honours) Degree in Computer Science

Year 1

Semester 2 Examinations 2012/2013

Web Development I

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Duration: 2 hours

Friday 24th May 2013

1.00pm – 3.00pm

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

1. (a) (i) What is the difference between the *Internet* and the *World-Wide-Web*? (4 marks)

- (ii) Write the html code for the following table:

Name	Telephone
Bill Gates	555 77 854 555 77 855

(6 marks)

- (b) (i) You are designing a web survey form for a client. You need to ask the client to submit a user name and password. What type of form element/s would you use? One of the questions has 6 possible responses. Only one response can be selected per question. What type of form element would you use to configure this question on the web page?

(4 marks)

- (ii) Provide the HTML code necessary to create these elements in a form.

(6 marks)

- (c) (i) Which following are examples of new HTML 5 elements? Select the two correct answers

- A. <article>
- B. <frame>
- C. <nav>
- D.

(4 marks)

- (ii) Which type of HTML list will automatically number the items in the list? Use code to support your answer.

(6 marks)

- (d) (i) What is the correct HTML for a horizontal line and what is the correct HTML tag for the largest heading?

(4 marks)

- (ii) Name three advantages that layers have over tables.

(6 marks)

2. *LandMark.com* is an architectural salvage 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 green (#060) 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 *LandMark.com*:

- Background image – Stone.gif
- Font colour #060

(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 CSS in an external file rather than embedded CSS in *LandMark.com*?

(6 marks)

(e) Write the CSS code to apply the following table characteristics to *LandMark.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) Describe *two* reasons for using tables in a web page.

(6 marks)

- (b) Write the html code for the following table:

Table for exam question:

Page Header		
Menu	Advertisement Space	
	Main Content Area	Blog Links
	(Text and Images)	
Footer		

(9 marks)

- (c) Add three buttons on the “menu” area. When clicking the first button, an alert window display content “Menu 1 has been clicked!”; when double clicking the second button, an alert window display content “Menu 2 has been double clicked!”; when clicking the third button, a prompt box ask for the user’s name. When entered and clicking “OK”, the page will display “Hello XXX/(user’s name as entered), how are you today?”. Use JavaScript to help finish those functions.

(15 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

If you click the "Submit" button, the form-data will be sent to a page called "html_form_action.asp".

(9 marks)

(d) What is the html code for an email box in a form?

(4 marks)

(e) Form data can be validated using JavaScript. Write a function to validate if the Customer Name has been entered.

(6 marks)