

W265/105C, W265B/105C, W265C/105C



DUBLIN INSTITUTE OF TECHNOLOGY

DT265 Higher Diploma in Computing

WINTER EXAMINATIONS 2014/2015

WEB & USER INTERFACE DESIGN [CMPU4063]
[DT265, DT265B, DT265C]

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WEDNESDAY 7TH JANUARY 1.00 P.M. – 3.00 P.M.

TWO HOURS

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) Identify all possible *tags* that can be used in the <head> section of a web page. Describe their uses and provide examples. (15 marks)
- (b) What is the meaning of an escaped character in HTML? Use examples to support your answer. (4 marks)
- (c) What units are used to size fonts in CSS? State why and when should each be used. (8 marks)
- (d) Outline *four* SEO guidelines that you will employ when designing your own websites. (8 marks)
- (e) What is the meaning of *automatic processing*, with regard to interface design? Use examples to support your answer. □ (5 marks)

2. (a) What is the meaning of **external** CSS? Use code to support your answer. (4 marks)
- (b) The CSS positioning properties allow you to position an element. Discuss the **four** positioning methods using code to support your answer. (8 marks)
- (c) Write the correct html code and embedded CSS code for the output in Figure 1.

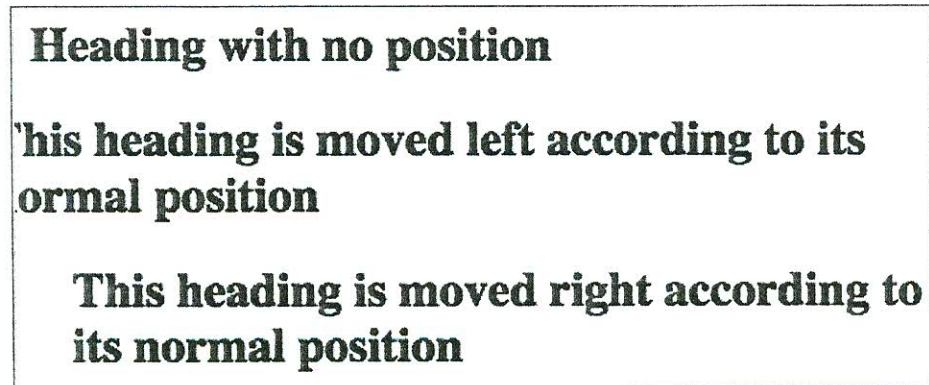


Figure 1.

(12 marks)

- (d) Discuss **two** techniques for right-aligning a layer. Use code to support your answer. (6 marks)

3. (a) Discuss *four* methods for testing your website.

(8 marks)

(b) There are various principles that can be used for evaluating websites.

i. Name *one* of these sets of principles.

(2 mark)

ii. Discuss how *three* of these principles are relevant to website evaluation.

(6 marks)

(c) There are many user groups that should be considered when designing a website. "Culture" is one of these.

i. Can you discuss *three* other relevant user groups?

(6 marks)

ii. Discuss *four* differences in designing an Arab website to designing an Irish website.

(8 marks)

4. (a) i. What is a **media query**? (2 marks)
- ii. What are the *components* of a media query? (4 marks)
- iii. Provide some CSS code to illustrate how a media query works. (6 marks)
- (b) The course management system, *Webcourses*, requires a redesign.
- i. Draw a **wireframe sketch** of the page layout of the new homepage. (2 marks)
- ii. Prototype a new home page for Webcourses, for both a mobile screen and a desktop screen. (4 marks)
- iii. Use **one** set of interface principles/guidelines to evaluate the prototypes, stating exactly how they have been used. (8 marks)
- iv. Describe the *two* most suitable evaluation methods that should be used to evaluate a low fidelity prototype. (4 marks)