

## **DUBLIN INSTITUTE OF TECHNOLOGY**

## DT8265/1 Higher Diploma in Computing DT8266/1 Masters Qualifier for MSc in Computing DT8900/1 International Pre Masters for MSc in Computing

**SUMMER EXAMINATIONS 2016/2017** 

## WEB & USER INTERFACE DESIGN [CMPU4063]

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WEDNESDAY 24<sup>TH</sup> MAY

9.30 A.M. – 11.30 A.M.

Two Hours

INSTRUCTIONS TO CANDIDATES

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 <i>tags</i> that can be used in the <head> section of a web Describe their uses and provide examples.</head>	page. (15 marks)
	(b)	What is the meaning of an escaped character in HTML? Use examples to your answer.	support (4 marks)
	(c)	What units are used to size fonts in CSS? State why and when should eac	h be used. (8 marks)
	(d)	Outline <b>two</b> features that HTML5 has over XHTML. Use examples to suranswer.	pport your (8 marks)
	(e)	What is the meaning of <i>Miller's Chunking</i> , with regard to interface design examples to support your answer.	n? Use (5 marks)

2. (a) Outline two features of CSS3. Use examples to support your answer.

(6 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.

## Heading with no position

his heading is moved left according to its ormal position

This heading is moved right according to its normal position

Figure 1.

(10 marks)

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

(6 marks)

3.	(a)	i.	The first command to user interface designers is "know thy user." an overall categorization of the <b>four</b> different types of user, which should consider.	corization of the <b>four</b> different types of user, which a designer		
				(12 marks)		
	(b)	ii. Derive	Derive guidelines for each user type that have been identified in (a)(i	)(i).		
				(12 marks)		
		What a	are three advantages of flat design?	×		
				(6 marks)		
4.	(a)	i.	What is the meaning of Mobile-First Design? (5 marks)			
				(5 marks)		
		ii. Write the CSS code that changes the colour of the background to the width gets <i>larger</i> than 768px.	Write the CSS code that changes the colour of the background to blue the width gets larger than 768 py	lue when		
			(8 marks)			
	(b)	Trovide times ways of dealing with images responsively. Ose code to support your				
		answers. (12)		(12 marks)		
	(c)	In CS	S3, how can the number of columns be specified?			
				(5 marks)		