

DUBLIN INSTITUTE OF TECHNOLOGY

DT265/1 Higher Diploma in Computing DT265A/1 Higher Diploma in Computing DT265B Masters Qualifier for MSc in Computing DT265C Masters Qualifier for MSc in Computing

WINTER EXAMINATIONS 2016/2017

WEB & USER INTERFACE DESIGN [CMPU4063]

Ms. Andrea Curley Dr. Deirdre Lillis Dr. Michael O'Mahony

FRIDAY 13TH JANUARY

 $1.00 \, \text{P.M.} - 3.00 \, \text{P.M.}$

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)	Write an <i>id selector</i> that centres a layer that is 50px wide.	(5 marks)
	(b)	What is the meaning of the <i>Box Model</i> in web development? Use code, we necessary to support your answer.	here (8 marks)
	(c)	Explain the following piece of code and what it does, when applied in a H webpage.	ITML
		<pre>p.inline { display: inline; }</pre>	(5 marks)
	(d)	i. What is the <i>Document Object Model</i> in Javascript?	(6 marks)
		ii. Write JavaScript that calculates the sum and product of all number to some user provided number. Print the results to the page.	rs from 1 (8 marks)
	(e)	When coding a website, discuss four ways that you can improve your SEG engine optimisation). Use code to support your answer.	O (search (8 marks)

2.	(a)	What is the meaning of responsive design?	(4 marks)	
	(b)	What is the meaning of adaptive design?	(4 marks)	
	(c)	What is the difference between responsive design and adaptive design?	(6 marks)	
	(d)	What are the advantages and disadvantages of responsive design?	(8 marks)	
	(e)	What are the advantages and disadvantages of adaptive design?	(8 marks)	
3.	(a)	Outline four ways that images are dealt with responsively when developing website. Use code to support your answer.		
	(b)	 Explain the following piece of code and what it does when ap HTML webpage. 	plied in a	
		div { border: 2px solid; border-radius: 25px;		
		}	(4 marks)	
		ii. Discuss two other uses of <i>CSS3</i> , using code to support your ar	nswer. (6 marks)	

- 4. (a) i. What are the Gestalt Principles and what do they aim to do? (6 marks)
 - ii. In web design, how can the *similarity law* improve the user experience? (9 marks)
 - (b) When positioning a layer, the coder must consider whether it and other layers are in the natural flow. What is meant by "the natural flow". Use code to support your answer.

(8 marks)

(c) Explain the following piece of code and what it does when applied in a HTML webpage.

```
img {
    float: left;
}

p.clear {
    clear: both;
}
```

(7 marks)