



DUBLIN INSTITUTE OF TECHNOLOGY

DT228 BSc. (Honours) Degree in Computer Science

Year 4

DT8900/1 International Pre Masters for MSc in Computing

WINTER EXAMINATIONS 2015/2016

RICH WEB APPLICATION TECHNOLOGY [CMPU4043]

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Tuesday 5th January

9.30 A.M. - 11.30 A.M.

Two hours

INSTRUCTIONS TO CANDIDATES

Answer Question 1 and any 2 other questions Question 1 is worth 40 marks. All other questions are worth 30 marks each.

	ch Internet Application that differ from traditional Web e design considerations when developing for richness. (15 marks)	
(b) Give an overview of the adv an application.	antages and drawbacks of using JavaScript as a resource in	
(c) jQuery implementation:	(15 marks)	
(i) Why is it best practice loads? How would you	to prevent running JavaScript/jQuery before the page	
	(3 marks) add style on an element using jQuery?	
(ii) What method is used to	(2 marks)	
(d) What are the steps to integra	te AngularJS with HTML? (5 marks)	
2. (a) Describe the advantages of I	HTML and its limitations for developing web applications. (10 marks)	
(b) Figure 1 below shows a form created in HTML. Write the appropriate JavaScript for validating user entries in this form, including a check for whether a valid email has been entered.		
been entered.	(15 marks)	
(c) What is the purpose of the 'a	side' tag in HTML5? (5 marks)	
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Country [choose yours] ▼

Submit

Figure 1- HTML form for validation check - Question 2(b)

3. (a)	What is the float property in CSS and how is it implemented? Use an example to	
	illustrate your answer.	
	(10 m	arks

(b) Name any 5 core features supported by the jQuery library.

(10 marks)

(c) Give an overview of the Twitter Bootstrap Grid System and describe the basic structure of Bootstrap grid in HTML.

(10 marks)

4. (a) Compare and contrast JSON and XML as web service formats, including advantages and disadvantages for each in your answer.

(15 marks)

(b) What is the Same Origin Policy? Briefly describe 3 ways to circumvent Same Origin Policy Security restrictions.

(15 marks)