

National College of Ireland

**HIGHER DIPLOMA IN WEB TECHNOLOGIES
HDWEBTECHD 1 - Day**

**HIGHER DIPLOMA IN WEB TECHNOLOGIES GROUP 1
HDIPWEBTECHG1 - Part-time**

**HIGHER DIPLOMA IN WEB TECHNOLOGIES GROUP 2
HDIPWEBTECHG2 - Part-time**

Semester Two Examinations – 2010/11

**Wednesday 11th May 2011
6.30pm – 8.00pm**

Rich Internet Applications

Dr. John Keating
Ms. Leonie Deasy

Answer **ALL** questions

Duration of exam: 1.5 Hours

Attachments: None

Question One:**[25 Marks]**

- a) Describe what is meant by Web Version 2.0, giving two examples in your answer. [5 Marks]
- b) What are the four main characteristics of font? [5 Marks]
- c) Briefly outline the differences between a bitmap image and a vector image. [5 Marks]
- d) Explain how media streaming is used with audio and video files online, provide an example of where you might experience streaming. [5 Marks]
- e) Give five examples of how cel animation differs from computer animation. [5 Marks]

Question Two:**[25Marks]**

- a) Briefly explain what Rich Internet Applications are; include two examples in your answer. [5 Marks]
- b) In what areas can Rich Internet Applications provide the greatest benefits and how? [10 Marks]
- c) Describe the risks and/or problems that general online users might be subject to. [10 Marks]

Question Three:**[50 Marks]**

- a) Outline Nielsen's 10 Usability Heuristics for user interface design? [10 Marks]
- b) Define usability, examining its five quality components. Why it is important for online applications? [10 Marks]
- c) Explain, using examples and/or illustrations, how a web developer might make their project more accessible to online users in general. [15 Marks]
- d) Discuss the importance of Human Computer Interaction in web application design and how this impacts the success or failure of Internet based businesses. [15 Marks]