



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 5 – WEB TECHNOLOGIES

Question 1

(a) **Identify FOUR** key components in the following URL:

<http://www.paypal.com.ssl2.us:43/webscr.php?cmd=Login#>. (4 marks)

(b) Referring to your response to Question 1a, **explain** the function of each of these components. (16 marks)

Question 2

(a) **State** the meaning of the term 'XML'. (2 marks)

(b) **State** the meaning of the term 'X/HTML'. (2 marks)

(c) **Explain why** X/HTML is used. (4 marks)

(d) **Illustrate** the key differences between X/HTML and HTML. Use diagrams and/or examples to support your answer. (12 marks)

Question 3

(a) **State** what happens during server-side execution. (4 marks)

(b) **Describe how** conditional statements can be used to control the HTML output in response to a HTTP request. (8 marks)

(c) **Explain** the difference between server-side storage (e.g. databases) and client-side storage (e.g. cookies). (8 marks)

Question 4

(a) **Describe** good usability. (4 marks)

(b) **Explain why** it is important to maintain a consistent user interface. (8 marks)

(c) **Explain how** the separation of content and layout leads to improved usability. (8 marks)

Question 5

Illustrate how to setup a news website on a cloud platform (e.g. Amazon Web Services). Use diagrams and/or examples to support your answer. (20 marks)