



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 5 – WEB TECHNOLOGIES

Question 1

- (a) **Identify** the components of a URL and **describe** its role in the world wide web. (10 marks)
- (b) **Explain** what a DNS is and how it works. (10 marks)

Question 2

- (a) **Describe** the structure and design of a basic HTML document. (10 marks)
- (b) **Write** the HTML needed to mark up a form containing a drop-down menu, an image and a text field on a web page. (10 marks)

Question 3

- (a) **Describe** a client-side scripting language with which you are familiar. (6 marks)
- (b) With reference to your answer to Question 3a, **explain** how this could be used to construct a dynamic website. (14 marks)

Question 4

Explain how the Model-View-Controller software pattern is used to develop user interfaces for web applications, using an example to illustrate your answer. (20 marks)

Question 5

Explain what a LAMP (Linux, Apache, MySQL, PHP) server is and describe its configuration and operation using Ubuntu. (20 marks)