



## Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

### Level 4 Diploma

#### UNIT 5 – WEB TECHNOLOGIES

##### Question 1

- (a) **State** what is meant by the term 'Universal Resource Locator' (URL). (4 marks)
- (b) **Illustrate** the function of each URL component. Use examples to support your answer. (8 marks)
- (c) **Explain** how URLs and a DNS are used to access Internet resources. (8 marks)

##### Question 2

- (a) **Describe TWO** key components used within HTML documents. (8 marks)
- (b) **Write** the HTML needed to implement a form containing three fields and a submission button on a web page. (12 marks)

##### Question 3

- (a) **Describe** the basic methods of interaction between a server-side script and database content. (10 marks)
- (b) **Illustrate** the difference between websites and web services. (10 marks)

##### Question 4

- (a) **Explain** how the Model-View-Controller concept supports the design of usable websites. (10 marks)
- (b) **Discuss** the concepts of progressive enhancement, graceful degradation and responsive design in relation to the design of usable websites. (10 marks)

##### Question 5

**Describe** the process of setting up and configuring a cloud hosting platform. (20 marks)