



# Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

## Level 4 Diploma

### UNIT 5 – WEB TECHNOLOGIES

#### Question 1

- (a) Explain the principles of Representational State Transfer (REST). (10 marks)
- (b) Identify each component of the following URL and describe its function:  
`http://172.0.2.24:80/device/index.html`. (10 marks)

#### Question 2

- (a) Summarise the new HTML mark-up introduced with HTML5. (10 marks)
- (b) Explain the relationship between XML and HTML. (10 marks)

#### Question 3

- (a) Describe the relationship between PHP and HTML, with reference to dynamic websites and user requests. (10 marks)
- (b) Explain the role of FTP in changing the behaviour of a website. (10 marks)

#### Question 4

- (a) Discuss how multimedia can be embedded into a HTML5-driven webpage. (10 marks)
- (b) Explain CSS inheritance, illustrating your answer with an example. (10 marks)

#### Question 5

Propose and justify FOUR design guidelines which will improve the usability of a website displayed on a mobile phone. (20 marks)