



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 5 – WEB TECHNOLOGIES

Question 1

- Explain** what is meant by the acronym HTTP. (4 marks)
- Illustrate** the role of caching proxies in HTTP delivery. Use diagrams and examples to support your answer. (8 marks)
- Suggest why** the port cannot be specified when sending a request to a web server. **Justify** your answer. (8 marks)

Question 2

- Outline FOUR** basic components needed to assemble and serve a webpage. (4 marks)
- Explain TWO** roles of HTML **and TWO** roles of XML in the creation of web sites. (16 marks)

Question 3

- Explain** the concept of data serialisation. (4 marks)
- Distinguish** between **TWO** characteristics of XML and **TWO** characteristics of JSON. (16 marks)

Question 4

- Describe TWO** ways in which videos are embedded into web pages. (8 marks)
- Recommend** the **most** appropriate file format **and** codec for serving high quality videos using low bandwidth. **Justify** your answer. (12 marks)

Question 5

- Describe TWO** benefits associated with shared web hosting. (6 marks)
- Discuss** the security implications associated with shared web hosting. (14 marks)