



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 5 – WEB TECHNOLOGIES

Question 1

- a) **Define** the acronym URL. (2 marks)
- b) **Illustrate** the structure of a URL. Use a diagram and an example to support your answer. (12 marks)
- c) Referring to your response to Question 1b, **suggest how** variables within a http request can be removed from the URL. **Justify** your answer. (6 marks)

Question 2

- a) **Outline** the process of creating a basic web page. (4 marks)
- b) **Compare** the advantages **and** disadvantages of HTML. (10 marks)
- c) Referring to your response to Question 2b, **suggest how** content can be separated from presentation. **Justify** your answer. (6 marks)

Question 3

- a) **Explain** how web services dynamically output data to clients. (4 marks)
- b) **Compare TWO** characteristics of JSON and XML output. (10 marks)
- c) Referring to your response to Question 3b, **suggest** which type of output is the **most** appropriate for bandwidth-restricted communication. **Justify** your answer. (6 marks)

Question 4

- a) **Describe THREE** advantages of using CSS. (6 marks)
- b) **Illustrate** TWO design principles that improve the usability of web pages. Use diagrams and examples to support your answer. (8 marks)
- c) Referring to your response to Question 4b, **discuss how** CSS can be used to implement the design principles. (6 marks)

Question 5

- a) **Explain** how to upload a web page to a web server using an FTP client. (4 marks)
- b) **Distinguish** between the capabilities of traditional web server host **and** a cloud-based web server host. (12 marks)
- c) Referring to your response to Question 5b, **suggest** which type of web server host is the **most** appropriate for a personal website. **Justify** your answer. (4 marks)

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