



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 5 – WEB TECHNOLOGIES

Question 1

- (a) **State FOUR** key components in a URL. (4 marks)
- (b) Referring to your response to Question 1a, **explain** the function of each of these components. (16 marks)

Question 2

- (a) **State** the meaning of acronym 'HTML'. (2 marks)
- (b) **State** the meaning of acronym 'CSS'. (2 marks)
- (c) **Explain TWO** differences between HTML and CSS. (6 marks)
- (d) **Write ONE** CSS rule set which will change the position of your choice. (10 marks)

Question 3

- (a) **State TWO** programming languages used to produce JSON output from a HTTP request. (2 marks)
- (b) Referring to your response to Question 3a, **describe how** conditional statements in each language can be used to control JSON output. (9 marks)
- (c) Referring to your response to Question 3a, **describe how** iterative blocks can be used to repeat JSON output. (9 marks)

Question 4

- (a) **Explain** what is meant by the term 'responsive design'. (4 marks)
- (b) **Explain how** responsive design improves usability for browsing the web on mobile devices. (8 marks)
- (c) **Explain how** to embed a multimedia video into a web page. (8 marks)

Question 5

Illustrate how to setup a web server on an Operating System of your choice. Use diagrams and/or examples to support your answer. (20 marks)

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