



Professional Qualification in
COMPUTING AND INFORMATION SYSTEMS
Level 4 Diploma

UNIT 2 – COMPUTER PROGRAMMING

Question 1

- (a) **State** what is meant by the term 'compiled language'. (4 marks)
- (b) **Describe TWO** key features of an object-orientated language. (8 marks)
- (c) **Discuss** which language may be suitable for client-side web scripting. (8 marks)

Question 2

- (a) **State** the meaning of the term 'string'. (4 marks)
- (b) **Describe** how strings are used in computer programs. (6 marks)
- (c) **Describe** how a string can be used with other data types to form a composite data type. (10 marks)

Question 3

- (a) **Explain** the difference between source code and machine code. (10 marks)
- (b) **Explain** the difference between compiled program execution and interpreted program execution. (10 marks)

Question 4

Illustrate an algorithm to place the set {6,2,1,9} in to descending order using a flow chart and trace table. Use diagrams and/or examples to support your answer. (20 marks)

Question 5

Illustrate FOUR constructs of an Object-Orientated Language. Give examples to show their usage in programming. (20 marks)