



**Professional Qualification in**  
**COMPUTING AND INFORMATION SYSTEMS**  
**Level 4 Diploma**

**UNIT 2 – COMPUTER PROGRAMMING**

**Question 1**

Describe **ONE** strength of an interpreted language. (5 marks)

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**Question 2**

Describe **ONE** strength of an imperative language. (5 marks)

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**Question 3**

State what is meant by each of the following primitive data types:

Boolean. (2 marks)

Integer. (2 marks)

Character. (2 marks)

String. (2 marks)

Float. (2 marks)

**Question 4**

Describe the advantages and disadvantages of an array data structure. (10 marks)

**Question 5**

(a) Describe **ONE** difference between source code and machine code. (5 marks)

(b) Describe **ONE** difference between compiled program execution and interpreted program execution. (5 marks)

### Question 6

In the process of source code compilation, describe each of the following steps:

Compiling. (5 marks)

Assembling. (5 marks)

### Question 7

Describe the following aspects of a programme:

A function. (5 marks)

An argument. (5 marks)

### Question 8

Describe **ONE** difference between a pointer and a value. (5 marks)

Identify **ONE** use of trace tables to support code tracing. (5 marks)

### Question 9

Describe **ONE** difference between a class and an object. (5 marks)

Describe **ONE** difference between an object and an instance. (5 marks)

### Question 10

Describe the following TWO object-orientated design considerations:

Visibility modifiers. (5 marks)

Coupling versus cohesion. (5 marks)