

## Candidate 2

The evidence for this candidate has achieved the following marks for each question of this course assessment component.

### Question 1 (a)

The candidate was awarded **2 marks** because user and subscribed user actors were all correctly indicated with all 7 bulleted use cases.

### Question 1 (b) (i)

The candidate was awarded **1 mark** because they compared speed of date entry with both methods.

### Question 1 (b) (ii)

The candidate was awarded **1 mark** because the description of insertion sort makes no reference to the data provided in the question.

### Question 1 (c) (ii)

The candidate was awarded **4 marks** because the form data has been assigned correctly, connection parameters have been used correctly, connection with the database server has been established and correct use has been made of the SQL INSERT INTO statement.

### Question 2 (a)

The candidate was awarded **1 mark** because scope has been identified correctly.

### Question 2 (b) (i)

The candidate was awarded **2 marks** because issues with Intellectual Property Rights were identified together with possible legal action and financial consequences.

### Question 2 (c) (i)

The candidate was awarded **1 mark** because they used the SQL CREATE statement correctly.

### Question 2 (c) (ii)

The candidate was awarded **1 mark** because they used the correct search criteria. However, both the FROM clause and the join are incorrect.

### Question 2 (d)

The candidate was awarded **2 marks** because their response indicates an attempt to check for empty queue and updating of front pointer.

### Question 3 (a) (i)

The candidate was awarded **3 marks** because their explanation of the difference between a class and an object and of inheritance makes appropriate references to the UML class diagram. However, their explanation of encapsulation does not refer to the UML class diagram.

### Question 3 (b)

The candidate was awarded **1 mark** because declaration indicates the correct dimension of the required array.

### Question 3 (c) (i)

The candidate was awarded **0 marks** because no output is indicated for Nour who is an Official (which is a subclass of the Member class).

### Question 3 (e)

The candidate was awarded **1 mark** because their response indicates that they used analytics of ticket sales.

### Question 4 (a) (i)

The candidate was awarded **1 mark** because their response shows the correct record structure.

### Question 4 (a) (ii)

The candidate was awarded **3 marks** because the initialisation of values is correct, conditional loop uses the correct complex condition and appropriate pupil details have been displayed. The updates within the conditional loop are not all correct and use of record structure was not indicated.

### Question 4 (b)

The candidate was awarded **2 marks** because the correct pupil record was updated using the SQL UPDATE statement.

**Question 4 (c)**

The candidate was awarded **2 marks** because the correct sort method indicated together with alternative form of the correct select condition.