Candidate 4

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 two actors were indicated with 7 bulleted use cases.

Question 1 (b) (ii)

The candidate was awarded **2 marks** because their description of insertion sort is correct and they also made appropriate reference to the data provided.

Question 1 (c) (i)

The candidate was awarded **2 marks** because the correct structure of the <FORM> tag and <INPUT> tag for username and password has been used.

Question 1 (c) (ii)

The candidate was awarded **5 marks** because the form data has been assigned correctly, connection parameters have been used correctly, connection with database server has been established, correct use has been made of SQL INSERT INTO statement and connection with database server has been closed.

Question 2 (a)

The candidate was awarded **2 marks** because scope and constraints have been correctly identified from the details provided in the scenario.

Question 2 (b) (i)

The candidate was awarded **1 mark** because potential issues with Intellectual Property Rights have been identified.

Question 2 (b) (ii)

The candidate was awarded **1 mark** because their response indicates that an alternative method of input muse be used.

Question 2 (c) (ii)

The candidate was awarded **1 mark** because, although FROM clause and criteria are correct, join is incorrect.

Question 3 (a) (i)

The candidate was awarded **0 marks** because no reference has been made to the details provided in the UML class diagram.

Question 3 (a) (ii)

The candidate was awarded **1 mark** because the Team object has been instantiated by making appropriate use of the team name, anthem and flag value (Haggis).

Question 3 (b)

The candidate was awarded **2 marks** because the declaration indicates use of array of Athlete objects and correct dimension (Haggis).

Question 3 (c) (i)

The candidate was awarded **1 mark** because the correct output has been shown.

Question 3 (c) (ii)

The candidate was awarded **1 mark** because their response partially explains the operation of the procedure call.

Question 4 (a) (i)

The candidate was awarded **2 marks** because their response indicates use of an array with correct dimension together with importing and searching of details.

Question 4 (a) (ii)

The candidate was awarded **4 marks** because variables have been initialised correctly, conditional loop has the correct complex condition, comparisons within the conditional loop make use of correct array indexing and make appropriate updates.

Question 4 (b)

The candidate was awarded **3 marks** because their response indicates close connection with the database server, correct record being updated and appropriate use made of search results from 4 9a) (ii).

Question 4 (c)

The candidate was awarded **1 mark** because they indicated the correct sort method but the select condition was incorrect.

Question 4 (d)

The candidate was awarded **1 mark** because their explanation refers to efficiency of quicksort when used with large arrays.