

Commentary on candidate evidence

The responses have achieved the following marks for each question of this question paper.

Question 2

Response 1

The candidate was awarded **1 mark** because the second substring operation is incorrect.

Response 2

The candidate was awarded **2 marks** because the indexes on both substrings are consistent (used in Python).

Question 3

Response 1

The candidate was awarded **1 mark** because step 2 is expressed correctly, but step 3 has the incorrect direction of the transfer.

Response 2

The candidate was awarded **0 marks** because step 2 does not refer to either the control bus or unit, and step 3 has not mentioned the data bus and refers to the internal within processor.

Question 11(b)(i)

Response 1

The candidate was awarded **2 marks** because a record structure with name has been defined and four fields identified.

Response 2

The candidate was awarded **2 marks** because in SQA Reference Language, a record structure with name has been defined and four fields identified.

Question 11(b)(ii)

Response 1

The candidate was awarded **2 marks** because an array has been declared and the data type matches the record name from part 11(b)(i).

Response 2

The candidate was awarded **2 marks** because an array has been declared and the data type matches the record name from part 11(b)(i).

Question 11(c)**Response 1**

The candidate was awarded **4 marks** because the maximum has been set to an appropriate initial value, the loop traverses the array, the If condition and the reassignment in the same line. Also, the comparison for the If is implied in line 4 but all four bullet points of the marking instructions are present.

Response 2

The candidate was awarded **4 marks** because the maximum has been set to an appropriate initial value, the loop traverses the array, the If condition is correctly expressed and the reassignment of maxSpeed is correct. The candidate's response is close to a particular programming language but all concepts from the bullet points in the marking instructions are clearly expressed.

Question 13(a)**Response 1**

The candidate was awarded **0 marks** because they have restated the stem of the question and identified the end user requirements.

Response 2

The candidate was awarded **2 marks** because they have identified the underlying queries.

Response 3

The candidate was awarded **2 marks** because they have identified the functions required of the database as inferred by the stem of part (a).

Question 13(c)**Response 1**

The candidate was awarded only **1 mark** for selecting fundraiserID and applying AVG to the correct field. The second mark was not awarded because the alias is correct, but the 'FROM' was not specified.

Response 2

The candidate was awarded **2 marks**. The first mark was awarded for selecting fundraiserID and a correct alternative to AVG. The second mark was awarded because the ALIAS and the FROM with the correct table was included. The third mark was not awarded as GROUP BY has not been identified by the candidate.

Response 3

The candidate was awarded **3 marks** despite using two tables when only one was required.

Question 14(a)**Response 1**

The candidate was awarded **0 marks** as they have additional data for the IN and have annotated position as an array.

Response 2

The candidate was awarded **1 mark** for bullet point 2; the OUT-data flow.

Question 14(b)**Response 1**

The candidate was awarded **4 marks** because:

- ◆ they have both conditions correct for marks at bullet points 2 and 3
- ◆ they have reassigned the correct variable 'price' within If condition for the mark at bullet point 4
- ◆ position is correctly assigned within If condition for the mark at bullet point 5.

Response 2

The candidate was awarded **4 marks** because:

- ◆ they have both conditions correct for marks at bullet points 2 and 3
- ◆ they have reassigned the correct variable 'min' within If condition for the mark at bullet point 4
- ◆ the position is correctly assigned within If condition for the mark at bullet point 5.

Question 15(a)**Response 1**

The candidate was awarded **1 mark** because three arrays have been declared.

Response 2

The candidate was awarded **2 marks** because three arrays have been declared and a data type has been set for each array.

Question 15(b)**Response 1**

The candidate was awarded **5 marks** because:

- ◆ both initialise and count of 'NumFound'
- ◆ loop correctly traverses array
- ◆ both conditions are present – ignore missing quote marks on string for 'Junior'
- ◆ output correctly concatenated.

Response 2

The candidate was awarded **4 marks** because:

- ◆ declaration of variable 'qualifiers' was accepted for initialisation
- ◆ loop correctly traverses array
- ◆ only one condition is present
- ◆ output correctly concatenated.

Response 3

The candidate was awarded **4 marks** because:

- ◆ both initialise and count of 'count'
- ◆ loop correctly traverses array
- ◆ only one condition is present
- ◆ output correctly concatenated.

Response 4

The candidate was awarded **2 marks** because:

- ◆ both initialisation of count and incrementing count were stated
- ◆ loop correctly traverses array
- ◆ both conditions are present (2 marks)
- ◆ output incorrectly concatenated – uses 'i' instead of count.

Question 16(d)(i)**Response 1**

The candidate was awarded only **1 mark** because they used the wrong image.

Response 2

The candidate was awarded **2 marks** for the function name with parameter and the source attribute to the correct image.

Question 16(d)(ii)**Response 1**

The candidate was awarded only **1 mark** because they did not re-write the HTML element. The candidate only included the call to the function.

Response 2

The candidate was awarded only **1 mark** because they correctly called their function but the mouse event was wrong.

Question 17(a)

Response 1

The candidate was awarded **2 marks** because the search criteria and grouping are both correct. The candidate used the SUM function on the wrong field – ‘time’.

Response 2

The candidate was awarded **1 mark** because the search criteria is correct but the function name and the grouping were both incorrect.

Question 17(d)

Response 1

The candidate was awarded **2 marks** because:

- ◆ Sum function used instead of COUNT
- ◆ tables are correct
- ◆ grouping is correct
- ◆ sort order not specified.

Response 2

The candidate was awarded **2 marks** because:

- ◆ Fields and COUNT were used correctly
- ◆ tables are correct
- ◆ grouping is incorrect
- ◆ sort order was specified on the ALIAS but the mark was awarded as this is a design question.

Question 18(c)(ii)

Response 1

The candidate was awarded **0 marks** because they wrote the code out as a sentence and made no reference to the first iteration and the values of variables during that iteration.

Response 2

The candidate was awarded **1 mark** for providing a meaningful description of the code that does not reference the relevant values during the first iteration.