

# Commentary on candidate evidence

## Candidate A

### Question 1

The candidate was awarded **1 mark** for stating a gif is as graphic file format for animation.

### Question 2

The candidate was awarded **1 mark** for stating that images have not displayed correctly. The candidate was not awarded a second mark, as an “inconsistent font size” does not affect the webpage being fit for purpose.

### Question 3

The candidate was awarded **1 mark** for compression.

### Question 4(a)

The candidate was awarded **0 marks** because response is 0.1 higher than the lowest acceptable value for “on”.

### Question 4(b)

The candidate was awarded **2 marks** for correctly identifying the mantissa and exponent in floating-point representation as per marking instructions.

### Question 5

The candidate was awarded **1 mark** for uniquely identifying each record.

### Question 6

The candidate was awarded **1 mark** for encryption.

### Question 7

The candidate was awarded **1 mark** for round function. The candidate was not awarded a second mark as it is unclear what the parameter is for the function.

### Question 8

The candidate was awarded **1 mark** for consistent positioning/ layout of elements.

### Question 9

The candidate was awarded **2 marks** because the candidate correctly stated the type of coding and events used.

### Question 10(a)

The candidate was awarded **1 mark** for correctly identifying all items costing 0.45 are updated, not just the books.

### Question 10(b)

The candidate was awarded **2 marks** because candidate correctly rewrote SQL statement to give the expected output.

**Question 11**

The candidate was awarded **1 mark** for correctly identifying the condition in the flowchart.

**Question 12**

The candidate was awarded **1 mark** because they demonstrate an understanding of why low-fidelity prototypes are used so users get an idea of what the website will look like.

**Question 13**

The candidate was awarded **1 mark** as Eduardo owns rights to usage as he took the photos.

**Question 14(a)**

The candidate was awarded **1 mark** for identifying the error lies with the incorrect variable name in line 16.

**Question 14(b)**

The candidate was awarded **0 marks** because candidate identified a comparison operator (<) and not a logical operator.

**Question 14(c)**

The candidate was awarded **1 mark** for correctly working through the code to get £5.

**Question 15**

The candidate was awarded **1 mark** for correctly explaining that number of times to repeat is unknown.

**Question 16**

The candidate was awarded **0 marks** because it is not clear that the whole record for K Willis would be deleted. Answer infers that only two fields would be removed, leaving the average score behind.

**Question 17(a)(i)**

The candidate was awarded **2 marks**. A mark for array stores multiple values and the second mark for identifying that answers are True/ False Boolean values.

**Question 17(a)(ii)**

The candidate was awarded **4 marks** for loop 10 times, use of IF construct, correct condition to check input matches correct answer, and for running total which adds 5 points to score correctly.

**Question 17(b)**

The candidate was awarded **1 mark** because candidate explained the need for translation to binary in order for program to run.

**Question 18(a)**

The candidate was awarded **3 marks** because answer included meeting times page with double headed arrow from home page, a link to external page and single arrow from meeting times page to external link.

**Question 18(b)**

The candidate was awarded **3 marks** because candidate completed diagram drawing arrows from <h2> to "About Us", <p> to second paragraph and <a> to hyperlinks.

**Question 18(c)**

The candidate was awarded **2 marks** because compressed file type and high colour depth have correctly been stated as reasons why jpeg files are often used as the standard file format for photographs on web pages.

**Question 18(d)**

The candidate was awarded **2 marks** for reference to use of class style taking priority and for identifying the middle part is white.

**Question 18(e)**

The candidate was awarded **2 marks** for correct use of ul selector and correct style declaration.

**Question 18(f)(i)**

The candidate was awarded **0 marks** because anchor is an incorrect answer.

**Question 18(f)(ii)**

The candidate was awarded **0 marks** because absolute addressing is an incorrect answer.

**Question 18(g)**

The candidate was awarded **2 marks** because they correctly stated that testing that links work and checking that the webpage matches design are tests that can be carried out on a webpage.

**Question 19(a)**

The candidate was awarded **3 marks** because they identified all the inputs, processes and outputs.

**Question 19(b)**

The candidate was awarded **2 marks** because the user interface design included 3 correct input boxes (name, password and deposit) and an output box to show new balance. The third mark was not awarded as they omitted button to update balance.

**Question 19(c)(i)**

The candidate was awarded **1 mark** because they correctly stated length as the pre-defined function to check that the password contains 8 characters.

**Question 19(c)(ii)**

The candidate was awarded **1 mark** for efficient use of function to avoid writing all lines of code to perform same function.

**Question 19(d)**

The candidate was awarded **4 marks** because candidate used conditional loop, condition on loop to check length of password is 8 character, input of reading and a suitable error message.

**Question 19(e)**

The candidate was awarded **3 marks** because they completed the test table correctly.

**Question 20(a)**

The candidate was awarded **3 marks** because each row was completed correctly.

**Question 20(b)**

The candidate was awarded **2 marks** because the data and number has been identified as the most suitable attribute types.

**Question 20(c)**

The candidate was awarded **4 marks** because their response identified route as table, routeType=mountain and rating>3 as the two search criteria, using AND to combine them. The fifth mark was not awarded, as the response does not identify the correct field.

**Question 20(d)(i)**

The candidate was awarded **3 marks** because each row completed by the candidates shows the expected output from the SQL statement.

**Question 20(d)(ii)**

The candidate was awarded **1 mark** because response identifies that the output from executing the SQL statement could be compared to what was expected.

**Question 20(e)**

The candidate was awarded **1 mark** because link to route table described as problem that may occur.

**Question 21(a)**

The candidate was awarded **5 marks** for calculating total cost correctly, assigning result of calculation to total cost variable, correct criteria in IF construct for adults, correct use of AND to combine criteria in IF construct and for correct subtraction of £5 discount from total. Sixth mark not awarded as criteria in IF construct for children should only be >2.

**Question 21(b)(i)(A)**

The candidate was awarded **0 marks** because they incorrectly included "" and additional text.

**Question 21(b)(i)(B)**

The candidate was awarded **0 marks** because they incorrectly included "" and additional text.

**Question 21(b)(ii)**

The candidate was awarded **1 mark** because response refers to use of integer/whole number.

**Question 21(b)(iii)**

The candidate was awarded **1 mark** for Arithmetic Logic Unit.

**Question 21(b)(iv)**

The candidate was awarded **1 mark** for data bus.

**Question 22(a)(i)**

The candidate was awarded **1 mark** because candidate correctly carried out binary conversion.

**Question 22(a)(ii)**

The candidate was awarded **2 marks** for 8 bits and for 8 characters.

**Question 22(b)(i)**

The candidate was awarded **1 mark** for identifying rectangle as the object.

**Question 22(b)(ii)**

The candidate was awarded **2 marks** because they identified fill colour and line colour as attributes of a rectangle.

**Question 22(c)**

The candidate was awarded **1 mark** because candidate has identified if they “reduce brightness level” as a feature of a computer system that would reduce energy consumption.

**Question 23(a)**

The candidate was awarded **5 marks** for adding telephone number attribute to shop entity, adding surname position, employee code and branchID attributes to staff entity, adding correct one-to-many relationship, for indicating employeeCode if primary key of staff entity and that branchID is foreign key in staff entity. A sixth mark was not awarded as response did not include the name of relationship.

**Question 23(b)(i)**

The candidate was awarded **0 marks** because they incorrectly stated that the purpose of a data dictionary is to show ALL the data that needs to be input.

**Question 23(b)(ii)**

The candidate was awarded **0 marks** because they incorrectly stated range check as another type of validation that should be included in the data dictionary.

**Question 23(c)(i)**

The candidate was awarded **1 mark** because they correctly identified that a link is created to the section/paragraph further down about Sydney’s family.

**Question 23(c)(ii)**

The candidate was awarded **5 marks** because they positioned the top section with the required text, numbered the items in the list underneath each other, with each item in the list underlined and identified as links.

## Candidate B

### Question 1

The candidate was awarded **1 mark** for stating gif as graphic file type.

### Question 2

The candidate was awarded **1 mark** for stating that not all images have loaded. The candidate was not awarded a second mark, as inconsistent font size does not affect the webpage being fit for purpose.

### Question 3

The candidate was awarded **1 mark** for compression.

### Question 4(a)

The candidate was awarded **1 mark** because they correctly identified the smallest value for "on".

### Question 4(b)

The candidate was awarded **1 mark** for correctly identifying the exponent in floating-point representation. They were not awarded the second mark as they provided an incorrect answer for mantissa.

### Question 5

The candidate was awarded **1 mark** for uniquely identifying each record.

### Question 6

The candidate was awarded **1 mark** for encryption.

### Question 7

The candidate was awarded **2 marks** because they stated round as the pre-define function and 2 decimal places as parameter.

### Question 8

The candidate was awarded **1 mark** for colour layout/idea of same colour used in same places in layout

### Question 9

The candidate was awarded **2 marks** because the candidate correctly stated the type of coding and events used.

### Question 10(a)

The candidate was awarded **1 mark** for correctly identifying that all items costing 0.45 are updated, not just the books.

### Question 10(b)

The candidate was awarded **1 mark** for type field. A second mark was not awarded for =Book criteria without quotes.

### Question 11

The candidate was awarded **1 mark** for correctly identifying the condition in the flowchart.

**Question 12**

The candidate was awarded **1 mark** because they providing indication of usage by end user/client to get an idea of what the website will look like.

**Question 13**

The candidate was awarded **1 mark** as Eduardo owns rights he has no need to ask others for permission.

**Question 14(a)**

The candidate was awarded **1 mark** for identifying the error lies with the incorrect variable name in line 16.

**Question 14(b)**

The candidate was awarded **0 marks** because they identified < as a comparison operator and not a logical operator.

**Question 14(c)**

The candidate was awarded **1 mark** for correctly working through code to get £5.

**Question 15**

The candidate was awarded **0 marks** because response lacked clarity on repetition taking place.

**Question 16**

The candidate was awarded **0 marks** because it is not clear from response that that the whole record for K Willis would be deleted.

**Question 17(a)(i)**

The candidate was awarded **1 mark** because they accurately identified that answers are 1/0 Boolean values. A second mark was not awarded, as the response did not refer to arrays.

**Question 17(a)(ii)**

The candidate was awarded **4 marks** for loop 10 times, use of IF construct, correct condition to check input matches correct answer, and for running total which adds 5 points to score correctly.

**Question 17(b)**

The candidate was awarded **1 mark** because candidate explained the program will run faster as translation only needs to occur once.

**Question 18(a)**

The candidate was awarded **2 marks** because answer included meeting times page with double headed arrow from home page, a link to external page. Third mark not awarded as response had a double headed arrow from meeting times page to external link.

**Question 18(b)**

The candidate was awarded **3 marks** because candidate completed diagram drawing arrows from <h2> to "About Us", <p> to second paragraph and <a> to hyperlinks.

**Question 18(c)**

The candidate was awarded **1 mark** because high colour depth is a valid reason. Mark not awarded for second reason as common file format for photographs provided in question stem.

**Question 18(d)**

The candidate was awarded **0 marks** because response lacked reference to use of class style to colour part of the page white.

**Question 18(e)**

The candidate was awarded **1 mark** for correct style declaration.

**Question 18(f)(i)**

The candidate was awarded **1 mark** because they have correctly identified that an internal hyperlink has been used.

**Question 18(f)(ii)**

The candidate was awarded **1 mark** because they have correctly identified that relative addressing has been used.

**Question 18(g)**

The candidate was awarded **2 marks** for correctly stating two tests that can be carried out on a web page.

**Question 19(a)**

The candidate was awarded **3 marks** because they identified all the inputs, processes and outputs.

**Question 19(b)**

The candidate was awarded **3 marks** because the user interface design included 3 correct input boxes (name, password and deposit) a process button to update balance and an output box to show new balance.

**Question 19(c)(i)**

The candidate was awarded **1 mark** because they correctly stated length as the pre-defined function to check that the password contains 8 characters.

**Question 19(c)(ii)**

The candidate was awarded **0 marks** because response lacked the technical accuracy required.

**Question 19(d)**

The candidate was awarded **4 marks** because candidate used a conditional loop, condition on loop to check length of password is 8 character, input of reading and a suitable error message.

**Question 19(e)**

The candidate was awarded **3 marks** because they completed the test table correctly.

**Question 20(a)**

The candidate was awarded **3 marks** because each row was completed correctly.

**Question 20(b)**

The candidate was awarded **2 marks** because date and number has been identified as the most suitable attribute types.

**Question 20(c)**

The candidate was awarded **4 marks** because their response identified the field as routeID, table as route, routeType=mountain and rating>3 as the two search criteria. A fifth mark was not awarded as response did not use AND to combine search criteria.

**Question 20(d)(i)**

The candidate was awarded **3 marks** because each row completed by the candidates shows the expected output from the SQL statement.

**Question 20(d)(ii)**

The candidate was awarded **1 mark** because response identifies that the output from executing the SQL statement could be compared expected output.

**Question 20(e)**

The candidate was awarded **1 mark** because candidate correctly identifies that foreign key in Walk table (Walk.routeID) would not match a primary key from the Route table (Route.routeID). Thereby allowing a walk to be added for a non-existent route.

**Question 21(a)**

The candidate was awarded **6 marks** for calculating total cost correctly, assigning result of calculation to total cost variable, correct criteria in IF construct for adults and children, correct use of AND to combine criteria in IF construct and for correct subtraction of £5 discount from total.

**Question 21(b)(i)(A)**

The candidate was awarded **0 marks** because response did not include exact wording for program output.

**Question 21(b)(i)(B)**

The candidate was awarded **0 marks** because response did not include exact wording for program output.

**Question 21(b)(ii)**

The candidate was awarded **1 mark** because response refers to use of integer.

**Question 21(b)(iii)**

The candidate was awarded **1 mark** for Arithmetic Logic Unit.

**Question 21(b)(iv)**

The candidate was awarded **1 mark** for data bus.

**Question 22(a)(i)**

The candidate was awarded **1 mark** because candidate correctly carried out binary conversion.

**Question 22(a)(ii)**

The candidate was awarded **1 mark** for 8 bits, second mark not awarded as 7 characters in incorrect.

**Question 22(b)(i)**

The candidate was awarded **1 mark** for identifying rectangle as the object.

**Question 22(b)(ii)**

The candidate was awarded **0 marks** because response made reference to shape fill and colour.

**Question 22(c)**

The candidate was awarded **1 mark** because candidates has identified a feature of a computer system that could reduce energy consumption.

**Question 23(a)**

The candidate was awarded **6 marks** for adding telephone number attribute to shop entity; adding surname position, employee code and branchID attributes to staff entity, adding correct one-to-many relationship; including an appropriate name for relationship; and for indicating employeeCode is primary key of staff entity and branchID is foreign key in staff entity.

**Question 23(b)(i)**

The candidate was awarded **1 mark** because they correctly stated the purpose of data dictionary is to outline fields, validation and keys etc.

**Question 23(b)(ii)**

The candidate was awarded **1 mark** because they correctly identified restricted choice as another type of validation that should be included in the data dictionary.

**Question 23(c)(i)**

The candidate was awarded **0 marks** because the response did not explain the purpose of the section of code provided.

**Question 23(c)(ii)**

The candidate was awarded **4 marks** because they positioned the top section with the required text, listed items underneath each other, with each item in the list underlined and identified as links. A fifth mark was not awarded, as response did not number items in the list.