Commentary on candidate evidence

The candidate evidence has achieved the following marks for each question of this question paper.

Question 3

Candidate 1

The candidate was awarded **3 marks**.

The candidate was not awarded mark 1 as they have incorrectly calculated the taxable income.

The candidate was awarded mark 2 for calculating the tax for the starter rate correctly.

The candidate was awarded mark 3 as a follow through, because they correctly calculated the tax for the basic rate based on their previously calculated taxable income.

The candidate was awarded mark 4 as a follow through, because they correctly calculated the net monthly salary based on their previously working.

See Commonly Observed Responses (COR) Candidate C.

Candidate 2

The candidate was awarded **3 marks**.

The candidate was not awarded mark 1 as they have not calculated the taxable income.

The candidate was awarded mark 2 for calculating the tax for the starter rate correctly.

The candidate was awarded mark 3 as a follow through, because they correctly calculated the tax for the basic rate based on their previous working.

The candidate was awarded mark 4 as a follow through, because they calculated the net monthly salary correctly based on their previously working.

See COR Candidate A.

Candidate 3

Question 5(a)(i)

The candidate was awarded **1 mark**.

The candidate was awarded mark 1 for a correct histogram.

Question 5(a)(ii)

The candidate was awarded **1 mark**.

The candidate was awarded mark 2 for accurately describing the distribution.

Question 5(a)(iii)

The candidate was awarded **1 mark**.

The candidate was awarded mark 3 for generating the median.

The candidate was not awarded mark 4 because they have not explicitly identified the measure of location.

Question 5(b)

The candidate was awarded **1 mark**.

The candidate was awarded mark 5 because they have stated a valid reason.

Candidate 4

Question 5(a)(i)

The candidate was awarded **0 marks**.

The candidate was not awarded mark 1 because the last bin is missing.

See Note 2 of the marking instructions.

Question 5(a)(ii)

The candidate was awarded **0 marks**.

The candidate was not awarded mark 2 because the statistical statement is incorrect.

Candidate 5

Question 5(a)(i)

The candidate was awarded **1 mark.**

The candidate was awarded mark 1 for providing a correct histogram.

Question 5(a)(ii)

The candidate was awarded **0 marks.**

The candidate was not awarded mark 2 because the statistical statement is incorrect.

Question 5(a)(iii)

The candidate was awarded **1 mark.**

The candidate was awarded mark 3 as a follow through mark based on their previous statement.

The candidate was not awarded mark 4 because they have not explicitly identified the measure of location.

Question 5(b)

The candidate was awarded **0 marks.**

The candidate was not awarded mark 5 because they have not stated a valid reason.

Question 6

Candidate 6

The candidate was awarded **1 mark.**

The candidate was awarded mark 1 for accumulating the value of the initial deposit using method 2.

The candidate was not awarded mark 2, the bonus was not calculated correctly.

The candidate was not awarded mark 3 as there is no attempt.

The candidate was not awarded mark 4 because the working has been eased.

Candidate 7

The candidate was awarded **3 marks.**

The candidate was awarded mark 1 for accumulating the value of the initial deposit, using method 1.

The candidate was not awarded mark 2, the bonus was not calculated correctly; it has been calculated at the end of month 1.

The candidate was awarded mark 3 as a follow through mark because the multiplier for interest was identified.

The candidate was awarded mark 4 as a follow through mark, the final balance is consistent with the incorrect bonus.

Candidate 8

The candidate was awarded **2 marks.**

See COR Candidate A.

The candidate was awarded mark 1 and 2 for accumulating the bonus at the start of month 1 leading to an answer.

Candidate 9

Question 7(a)

The candidate was awarded **2 marks**.

The candidate was awarded mark 1 because they have stated the correct probability of a delay.

The candidate was awarded mark 2 because they correctly calculated the expected cost of the delay.

Question 7(b)

The candidate was awarded **0 marks.**

The candidate was not awarded mark 3 because they have an incorrect calculation for the expected cost with control measure 2.

Question 7(c)

The candidate was awarded **1 mark.**

The candidate was awarded mark 4 as a follow through mark, a valid explanation based on their working has been given.

Candidate 10

Question 7(a)

The candidate was awarded **2 marks**.

The candidate was awarded mark 1 because they have stated the correct probability of a delay.

The candidate was awarded mark 2 because they calculated correctly the expected cost of the delay.

Question 7(b)

The candidate was awarded **1 mark**.

The candidate was awarded mark 3 because they have a correct calculation for the expected cost with control measure 2.

Question 7(c)

The candidate was awarded **1 mark.**

The candidate was awarded mark 4 because they provided a valid explanation.

Question 8(a)

Candidate 11

The candidate was awarded **1 mark.**

The candidate was not awarded mark 1 because the loan amount entered in cells C8 and F17 is incorrect.

The candidate was not awarded mark 2 because they have an incorrect formula/no ROUND function.

The candidate was awarded mark 3 as a follow through mark, the schedule has been completed and has the correct value in cell C53.

The candidate was not awarded mark 4 because cell F53 is not equal to 0.   See Note 4 of the marking instructions.

The candidate was not awarded mark 5 because the annual and monthly rates are inconsistent.

Candidate 12

The candidate was awarded **2 marks**.

The candidate was not awarded mark 1 because xthe loan amount entered in cells C8 and F17 is incorrect.

The candidate was not awarded mark 2 because they have no ROUND function in their formula.

The candidate was not awarded mark 3 because the value in cell C53 is incorrect.

The candidate was awarded mark 4 because the cell F53 is equal to 0.

The candidate was awarded mark 5 as a follow through mark, the monthly and annual rates are consistent.

Question 8(b)

Candidate 13

The candidate was awarded **0 marks.**

The candidate was not awarded mark 6 because there is no mention of financial protection or accident. See Note 2(a) of the marking instructions.

Question 8(c)

Candidate 14

The candidate was awarded **2 marks.**

The candidate was awarded mark 7 because the correct effective monthly interest rate has been calculated.

The candidate was not awarded mark 8 because the formulae in cells C20 and E20 are incorrect.

The candidate was not awarded mark 9 because the amendment is incorrect and in row 23 instead of row 24.

The candidate was awarded mark 10 as a follow through mark, cell C16 is equal to cell C31.

Candidate 15

The candidate was awarded **4 marks.**

The candidate was awarded mark 7 because the correct effective monthly interest rate has been calculated.

The candidate was awarded mark 8 because the formulae in cells C20, D20 and E20 are correct.

The candidate was awarded mark 9 because the amendment is correct (cell C24).

The candidate was awarded mark 10 because they calculated the correct balance before the monthly payment is made (cell C16).

Question 9(a)

Candidate 16

The candidate was awarded **1 mark**.

The candidate was awarded mark 1 because they have given a valid explanation with reference to questions 1 and 3.

Candidate 17

The candidate was awarded **0 marks**.

The candidate was not awarded mark 1 because they made no reference to the inter quartile range.

Question 9(b)(ii)

Candidate 18

The candidate was awarded **0 marks**.

The candidate was not awarded mark 3, because they did not include 'difference in the mean' in their hypothesis.

Question 9(b)(iii)

Candidate 19

The candidate was awarded **2 marks.**

The candidate was awarded mark 4 because they have correctly interpreted the p value.

The candidate was awarded mark 5 as a follow through mark, the statement is consistent with their hypothesis.

Question 10(a)

Candidate 20

The candidate was awarded **2 marks**.

The candidate was awarded mark 1 because they have started the graph at 4.

The candidate was awarded mark 2 because they drew a continuous straight line with a positive gradient.

The candidate was not awarded mark 3 because they did not stop the graph at 28.

Question 10(b)(ii)

Candidate 21

The candidate was awarded **0 marks.**

The candidate was not awarded mark 5 because they have not included the depth in their answer.

Question 10(c)

Candidate 22

The candidate was awarded **1 mark**.

The candidate was awarded mark 6 because they have identified the correct graph.

The candidate was not awarded mark 7 because they have only referred to the time taken to fill the container. See Note 2 of the marking instructions.

Candidate 23

The candidate was awarded **0 marks**.

The candidate was not awarded mark 6 because they have not identified the correct graph.

The candidate was not awarded mark 7. See Note 1 of the marking instructions.

Question 11(a)

Candidate 24

The candidate was awarded **3 marks.**

The candidate was awarded mark 1 because the correct monthly effective rate of interest is implied by the multiplier. See Note 2 of the marking instructions

The candidate was awarded mark 2 because the balance has been calculated to include the monthly interest.

The candidate was awarded mark 3 because the minimum payment has been correctly calculated and deducted.

See COR Candidate B.

Candidate 25

The candidate was awarded **1 mark.**

The candidate was not awarded mark 1 because they used the annual rate.

The candidate was awarded mark 2 as a follow through mark.

The candidate was not awarded mark 3 because the minimum payment has not been interpretated.

Candidate 26

The candidate was awarded **2 marks.**

The candidate was awarded mark 1 because the correct monthly effective rate of interest is implied by the multiplier. See Note 2 of the marking instructions.

The candidate was awarded mark 2 because the balance has been calculated to include the monthly interest.

The candidate was not awarded mark 3 because the interest does not accumulate on the minimum payment.

Question 11(b)

Candidate 27

The candidate was awarded **0 marks.**

The candidate was not awarded mark 4 because the statement made is invalid.

Candidate 28

The candidate was awarded **1 mark.**

The candidate was awarded mark 4 because they provided an appropriate statement.

Candidate 28