Cambridge IGCSE™ (9–1)

COMPUTER SCIEN	CE	0984/22		
Paper 2		May/June 2020		
MARK SCHEME				
Maximum Mark: 50				
	Published			

Students did not sit exam papers in the June 2020 series due to the Covid-19 global pandemic.

This mark scheme is published to support teachers and students and should be read together with the question paper. It shows the requirements of the exam. The answer column of the mark scheme shows the proposed basis on which Examiners would award marks for this exam. Where appropriate, this column also provides the most likely acceptable alternative responses expected from students. Examiners usually review the mark scheme after they have seen student responses and update the mark scheme if appropriate. In the June series, Examiners were unable to consider the acceptability of alternative responses, as there were no student responses to consider.

Mark schemes should usually be read together with the Principal Examiner Report for Teachers. However, because students did not sit exam papers, there is no Principal Examiner Report for Teachers for the June 2020 series.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the June 2020 series for most Cambridge IGCSE™ and Cambridge International A & AS Level components, and some Cambridge O Level components.

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Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded positively:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

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GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Section A

Question		Answer					
1(a)	For two variables One mark for identification of a variable with a suitable data type and one mark for its use						
	Variable Data type Use	hourArrived integer to calculate the price based on the number of hours parking					
	Variable Data type Use Many correct	priceToPay real store result of price calculation answers, these are examples only.					
1(b)	For each validation check One mark for identification of a check and one mark for the justification Day Check presence check Justification need to enter day to be able to calculate price		4				
	Hour Check Justification Many correct	range check need to check hour is between 8 and 23 answers, these are examples only.					

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Question	Answer	Marks
1(c)	Any four from: All 5 digits input Each of the first 4 digits is multiplied by a weight based on its position Specific method of individualising the digits described Added together divided by 11 Remainder used to calculate correct 5th digit Checked against 5th digit input If the same, then valid	4
1(d)	 Input amount Check amount greater than or equal to the price to pay True – add amount to daily total False – ask for payment to be re-entered Until valid amount input Sample answer PRINT "Please Enter Payment" INPUT amount WHILE amount < priceToPay DO PRINT "Insufficient payment, please enter new Payment" INPUT amount ENDWHILE totalPayment ← totalPayment + amount 	4
1(e)	Explanation Any four from:	4

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Section B

Question	Answer	Marks
2	Real Integer Char/String String Boolean	5

Question	Answer	Marks
3(a)	One mark for error and correction	4
	Line 1 HighestMark ← 0	
	Line 7 INPUT Mark[Count]	
	Line 10 HighestMarkStudents ← HighestMarkStudents + 1	
	Line 14 HighestMark ← Mark[Count]	
3(b)	Any six from:	6
` ,	Add variable LowestMark	
	Set this to a high value for example 100	
	Add variable LowestMarkStudents	
	Set this to zero	
	Check if Mark[Count] = LowestMark	
	True - add 1 to LowestMarkStudents	
	Check if Mark[Count] < LowestMark	
	True - set LowestMarkStudenta to 1 and set LowestMark to Mark[Count]	
	Add extra output statement	

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Question	Answer						Marks
4(a)	One mark for correct input (PointsWon and PointsLost) One mark for correct calculations (Difference) One mark for correct output						
		PointsWon	PointsLost	Difference	OUTPUT		
		5000	4474	526	Keep on trying		
		6055	2000	4055	Well done move up		
		7900	9800	-1900	Sorry move down		
		3000	2150	850	Keep on trying		
	_	-1	6700			_	
4(b)	Any three from: • Add extra de	ecision box					3
	// change Is Check for diAdd extra O	difference >= 10 fference greater	eap up two levels'.	<= 5000			

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Question	Answer	Marks
5	One mark for explanation of dimension One mark for explanation of index One mark for inclusion of an example	3
	The dimension is the number of indexes required to access an element. The index is the position of the element in an array For example A[25] is the 25th element of a one-dimensional array.	

Question	Answer						ks
6(a)	One mark for field and one mark for reason Field Juice code Reason only unique identifier						2
6(b)	Field:	Fruit 1	Fruit 2	Size	Stock level		4
	Table:	JUICE	JUICE	JUICE	JUICE		
	Sort:						
	Show:			Ø	Ø		
	Criteria:	="Apple"	="Apple"				
	or:						
	One mark for each correct column						

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