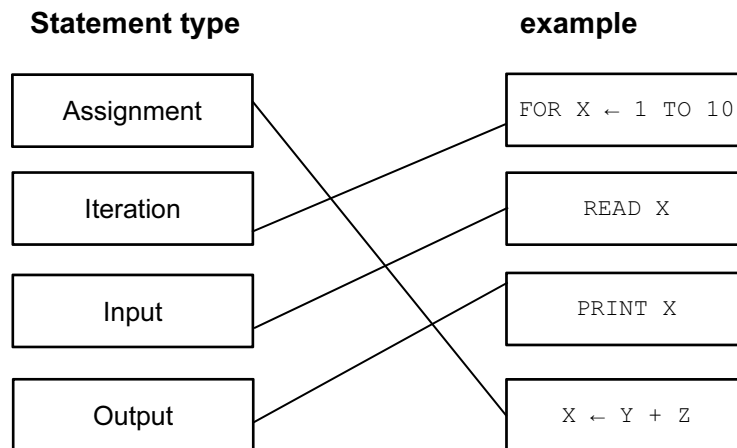


QUESTION 1.

Mark Scheme
Cambridge IGCSE – May/June 2016



- 4 1 mark for each correct line, maximum 3 (zero correct 0, one correct 1, two correct 2, three correct 3), each box must have only one connection.



[3]

- 5 – data structure (one—dimensional) array
– reason to simplify programming/ make programs shorter, etc.

[2]

- 6 – IF (... THEN ... ELSE ... ENDIF)
– CASE (... OF ... OTHERWISE ... ENDCASE)

[2]

- 7 (a) – 7

[1]

- (b) – Brochure Number.....
– Uniquely identifies each record/each Brochure Number different/no duplicates

[2]

- (c) – Number of Seats – number/integer
– Price in \$ – currency/real

[2]

- (d) 1 mark for each correct result, 1 mark for the results in descending order of price

- Recliner sofa 1,200 RS23
– Recliner chair 600 RC01

[3]

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

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

QUESTION 3.



Question	Answer										
4	<table><thead><tr><th>Validation Check</th><th>Description</th></tr></thead><tbody><tr><td>Range check</td><td>Checks that some data is entered.</td></tr><tr><td>Presence check</td><td>Checks for a maximum number of characters in the data entered.</td></tr><tr><td>Length check</td><td>Checks that the characters entered are all numbers.</td></tr><tr><td>Type check</td><td>Checks that the value entered is between an upper value and a lower value.</td></tr></tbody></table> One mark for each correct line, up to maximum of three marks.	Validation Check	Description	Range check	Checks that some data is entered.	Presence check	Checks for a maximum number of characters in the data entered.	Length check	Checks that the characters entered are all numbers.	Type check	Checks that the value entered is between an upper value and a lower value.
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Question	Answer	Marks
5	Totalling: - Adding the weight of each basket to the total weight as each weight is entered <code>Total = Total + Weight</code> Counting: - Adding one to/incrementing the number of baskets as each weight is entered <code>BasketCount = BasketCount + 1</code>	4



Question	Answer
6	Constants Two from: - The value cannot be changed accidentally during the execution of the program - Value only needs to be changed once if circumstances change/during the initialisation process Variables Two from: - Stores a value that can change during the execution of the program - Can use a variable without knowing its value Arrays Two from: - A list of items of the same data type stored under a single name - To reduce the number of variables used - Any item can be found using an index number to show its place in the list

Question	Answer	Marks																														
7(a)	Number is repeated/not unique	1																														
7(b)	- Item number not displayed/Amount column not required - Not Like 'Delivered' will also show cancelled items <table><tr><td>Field:</td><td>Item number</td><td>Order number</td><td>Status</td><td></td></tr><tr><td>Table:</td><td>SALES</td><td>SALES</td><td>SALES</td><td></td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td>☒</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Criteria:</td><td></td><td></td><td>Like "Not started"</td><td></td></tr><tr><td>or:</td><td></td><td></td><td>Like "In progress"</td><td></td></tr></table> - Correct Item number column - Correct Order number column and any additional column not shown - Correct status column	Field:	Item number	Order number	Status		Table:	SALES	SALES	SALES		Sort:					Show:	☒	☒	☐	☐	Criteria:			Like "Not started"		or:			Like "In progress"		5
Field:	Item number	Order number	Status																													
Table:	SALES	SALES	SALES																													
Sort:																																
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