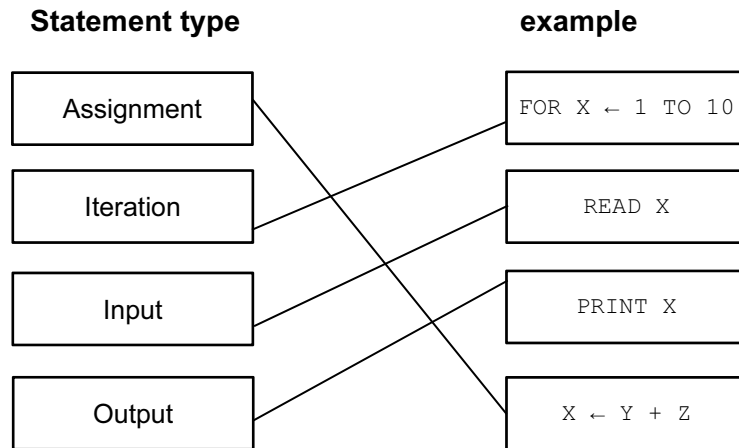


QUESTION 1.

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, four 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]

Page 6	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – May/June 2016	0478	22

(e)

Field:	Brochure Number	Material	Colour	Price in \$	Number of Seats
Table:	SOFASELECT	SOFASELECT	SOFASELECT	SOFASELECT	SOFASELECT
Sort:					
Show:	☒	☒	☒	☒	☐
Criteria:					>2
or:					
	(1 mark)	(1 mark)	(1 mark)	(1 mark)	(1 mark)

[5]

QUESTION 2.



Question	Answer			
5(b)	EarTag			
5(c)	Field:	EarTag	Gender	Weight
	Table:	SHEEP	SHEEP	SHEEP
	Sort:			
	Show:	☒	☐	☐
	Criteria:		= 'M'	> 10
	or:			
		(1 mark)	(1 mark)	(1 mark)

QUESTION 3.

0478/21

Question	Answer					Marks																																				
6(a)	To uniquely identify a product (in TOOLS)					1																																				
6(b)	<table><tr><td>HS50</td><td>Hose (50 metres)</td><td>60</td></tr><tr><td>GFLG</td><td>Garden Fork</td><td>50</td></tr><tr><td>LMPT</td><td>Lawn Mower (Petrol)</td><td>25</td></tr></table> One mark for correct data One mark for correct format One mark for data in correct order					HS50	Hose (50 metres)	60	GFLG	Garden Fork	50	LMPT	Lawn Mower (Petrol)	25	3																											
HS50	Hose (50 metres)	60																																								
GFLG	Garden Fork	50																																								
LMPT	Lawn Mower (Petrol)	25																																								
6(c)	<table><tr><td>Field:</td><td>Code</td><td>Description</td><td>Quantity_Stock</td><td></td><td></td></tr><tr><td>Table:</td><td>TOOLS</td><td>TOOLS</td><td>TOOLS</td><td></td><td></td></tr><tr><td>Sort:</td><td>Ascending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td>☒</td><td>☒</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Criteria:</td><td></td><td></td><td><25</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table> One mark for each completely correct column (max three)					Field:	Code	Description	Quantity_Stock			Table:	TOOLS	TOOLS	TOOLS			Sort:	Ascending					Show:	☒	☒	☒	☐	☐	Criteria:			<25			or:						3
Field:	Code	Description	Quantity_Stock																																							
Table:	TOOLS	TOOLS	TOOLS																																							
Sort:	Ascending																																									
Show:	☒	☒	☒	☐	☐																																					
Criteria:			<25																																							
or:																																										

QUESTION 4.

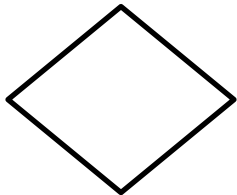
0478/22

Question	Answer	Marks
5	One mark for explanation of dimension One mark for explanation of index One mark for inclusion of an example 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.	3

Question	Answer				Marks																																			
6(a)	One mark for field and one mark for reason Field Juice code Reason only unique identifier				2																																			
6(b)	<table><tr><td>Field:</td><td>Fruit 1</td><td>Fruit 2</td><td>Size</td><td>Stock level</td></tr><tr><td>Table:</td><td>JUICE</td><td>JUICE</td><td>JUICE</td><td>JUICE</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>= "Apple"</td><td>= "Apple"</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> One mark for each correct column				Field:	Fruit 1	Fruit 2	Size	Stock level	Table:	JUICE	JUICE	JUICE	JUICE	Sort:					Show:	☐	☐	☒	☒	Criteria:	= "Apple"	= "Apple"			or:										4
Field:	Fruit 1	Fruit 2	Size	Stock level																																				
Table:	JUICE	JUICE	JUICE	JUICE																																				
Sort:																																								
Show:	☐	☐	☒	☒																																				
Criteria:	= "Apple"	= "Apple"																																						
or:																																								

QUESTION 5.

0478/23

Question	Answer	Marks
6	Decision  Process  One mark for each correct symbol	2

Question	Answer	Marks										
7(a)	<table><tr><th>Fieldname</th><th>Purpose of field contents</th></tr><tr><td>CodeNo</td><td>Primary key to identify products</td></tr><tr><td>Product</td><td>To describe the product</td></tr><tr><td>Price</td><td>The price of individual item</td></tr><tr><td>NumInStock</td><td>How many are in stock</td></tr></table> One mark for each correct fieldname and description pair	Fieldname	Purpose of field contents	CodeNo	Primary key to identify products	Product	To describe the product	Price	The price of individual item	NumInStock	How many are in stock	4
Fieldname	Purpose of field contents											
CodeNo	Primary key to identify products											
Product	To describe the product											
Price	The price of individual item											
NumInStock	How many are in stock											

Question	Answer				Marks																														
7(b)	<table><tr><td>Field:</td><td>CodeNo</td><td>Product</td><td>NumInStock</td><td></td></tr><tr><td>Table:</td><td>STOCK</td><td>STOCK</td><td>STOCK</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><20</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table>				Field:	CodeNo	Product	NumInStock		Table:	STOCK	STOCK	STOCK		Sort:					Show:	☒	☒	☐	☐	Criteria:			<20		or:					3
Field:	CodeNo	Product	NumInStock																																
Table:	STOCK	STOCK	STOCK																																
Sort:																																			
Show:	☒	☒	☐	☐																															
Criteria:			<20																																
or:																																			
One mark for each completely correct column (max three)																																			

QUESTION 6.

PUBLISHED

17



Question	Answer						
5(a)	Flag	Count	Name[1]	Name[2]	Name[3]	Name[4]	Temp
			Jamal	Amir	Eve	Tara	
	0	1	Amir	Jamal	Eve	Tara	Jamal
	1	2	Amir	Jamal	Eve	Tara	Jamal
	1	3	Amir	Eve	Jamal	Tara	Jamal
	1	4	Amir	Eve	Jamal	Tara	Jamal
	0	1	Amir	Eve	Jamal	Tara	Jamal
	0	2	Amir	Eve	Jamal	Tara	Jamal
	0	3	Amir	Eve	Jamal	Tara	Jamal
	0	4	Amir	Eve	Jamal	Tara	Jamal
(1 Mark) (1 Mark) (-----1 Mark-----) (-----1 Mark-----) (1 Mark)							
5(b)	1 mark per bullet: • Sorting the names • Ascending order / A to Z / lowest to highest / Alphabetic order						2

Question	Answer	Marks
6(a)	1 mark for any sensible appropriate field name 1 mark for data type, purpose + example data Example 1: Field Name: SPECIESID Data Type: Alphanumeric Purpose: Primary key Example Data: SP06583 Example 2: Field name: NUMBER Data Type: Integer Purpose: To record how many of that species there are at the park Example Data: 30	2



Question	Answer					
6(b)	Field:	Species	Classification	Diet	Legs	
	Table:	LIVESTOCK	LIVESTOCK	LIVESTOCK	LIVESTOCK	
	Sort:	Ascending/ Descending				
	Show:	☒	☐	☐	☐	☐
	Criteria:		“Mammal”	“Herbivore”	4	
	or:					
		(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)	
1 mark per completely correct column.						

QUESTION 7.

0478/22

Question	Answer	Marks																														
6(a)	– 1 mark for each field suitable name, 1 mark for appropriate data type and appropriate data sample The following are examples there are many different correct answers. – Engine Number, text, 21012 – Class, text, P6 – Service Date, date, 4/3/2017	6																														
6(b)	– Engine Number // Correct field number	1																														
6(c)	<table><tr><td>Field:</td><td>Engine Number</td><td>Class</td><td>Service Date</td><td></td></tr><tr><td>Table:</td><td>TRAIN</td><td>TRAIN</td><td>TRAIN</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>Like 'P*' // Like 'P?'</td><td><10/11/2016</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> (1 mark) (1 mark) (1 mark)	Field:	Engine Number	Class	Service Date		Table:	TRAIN	TRAIN	TRAIN		Sort:					Show:	☒	☐	☐	☐	Criteria:		Like 'P*' // Like 'P?'	<10/11/2016		or:					3
Field:	Engine Number	Class	Service Date																													
Table:	TRAIN	TRAIN	TRAIN																													
Sort:																																
Show:	☒	☐	☐	☐																												
Criteria:		Like 'P*' // Like 'P?'	<10/11/2016																													
or:																																