

# Key Skills

## Information and communication technology

### Level 3

### Plants

June 2006

## Final Mark Scheme

#### Notes for markers

The award of each mark is clearly stated. Half marks must not be used. Where more than one mark is awarded, partially correct answers are awarded fewer marks - these are clearly defined.

If a printout is missing but the evidence can be found elsewhere then this should be marked.

All printouts must contain the candidate name. Printouts without a name must not be marked. If the filename lists/screen prints or other printouts do not have the candidate's name printed, the candidate's name should be hand written.

The filenames should be recognised as being of the file type required in the test.

Case is unimportant, unless otherwise stated. Consistency is expected.

Where a candidate has been penalised for an error this must be allowed as a follow-through error and not penalised again.

All formulas should be checked by the marking examiner and all effective formulas should be accepted.

	<b>Task A - Database</b>	<b>Mark</b>	<b>&lt; L3</b>	<b>Refer to</b>	<b>Maximum Mark</b>
1a	Correct filename <b>D1-Initials</b> (hyphen unimportant)	<b>1</b>	<b>y</b>	<b>Printout 6</b> (Printout 1)	<b>7</b>
1b	Data correctly imported into a database	<b>1</b>		<b>Printout 2</b>	
	Correct field names	<b>1</b>		<b>Printout 1</b>	
1c	<b>ReferenceID</b> set as primary key	<b>2</b>		<b>Printout 1</b>	
1e	<b>Height</b> field size set to 1	<b>2</b>		<b>Printout 1</b>	
2a	Effective validation rule for <b>Height</b> . e.g. "S" OR "M" OR "T"	<b>3</b>		<b>Printout 1</b>	<b>5</b>
	Validation message includes "S, M or T " accept with or without "	<b>1</b>			
2b	Screen dump (or documenter report) of table structure showing all field names	<b>1</b>		<b>Printout 1</b>	
3a	Only correct 7 records selected (ReferenceID: U25, U21, U37, B35, P46, S60 & S21) R, *R, R* AND S OR M (2/4/5 records) - 4 marks only *R* only (10 records) - 2 marks only R, *R, R* only (5/7/8 records) - 1 mark only S OR M only (33 records) - 2 marks only Either S or M only (13/20 records) - 1 mark only Any selection of less than 50 records - 1 mark only	<b>5</b>		<b>Printout 2</b>	<b>13</b>
3b	Database report title is <b>Short and medium plants with red flowers</b>	<b>1</b>		<b>Printout 2</b>	
3c	Only fields <b>Category, Name, Variety, Code, ReferenceID, Price</b> and <b>Height</b> selected	<b>1</b>		<b>Printout 2</b>	
	Fields in order (as above)	<b>1</b>			
	All data fully displayed in columns in portrait form	<b>1</b>			
3d	Grouped by <b>Category</b> Sorted by <b>Category</b> - 1 mark only	<b>2</b>		<b>Printout 2</b>	
	Sorted in ascending order of <b>Name</b>	<b>1</b>			
3e	Electronic database report footer containing name and <b>Printout-2</b> (hyphen unimportant)	<b>1</b>		<b>Printout 2</b>	
<b>Total</b>					<b>25</b>

	<b>Task B - Spreadsheet</b>	<b>Mark</b>	<b>&lt; L3</b>	<b>Refer to</b>	<b>Maximum Mark</b>
4a	Data correctly imported into spreadsheet	<b>1</b>		<b>Printout 3</b>	<b>2</b>
4b	Cell ranges <b>B5:B13</b> and <b>E5:G13</b> as currency to 2dp and cell <b>H2</b> as currency to 0dp	<b>1</b>	y	<b>Printout 3</b>	
5a/b	Effective formula in cell <b>F5</b> eg =C5*E5 and effective formula in cell <b>G5</b> eg =F5-B5	<b>1</b>	y	<b>Printout 4</b>	<b>12</b>
5c	Effective formula in cell <b>H5</b> eg =IF(AND(C5>=D5,G5>=\$H\$2),"Good","Poor") Or =IF(AND(C5<D5,G5<\$H\$2),"Poor","Good") Or =IF(C5>=D5,IF(G5>=\$H\$2,"Good","Poor"),"Poor") Incorrect logical operator - deduct 2 marks Correct single IF condition - 5 marks only Correct IF with no absolute - deduct 2 marks Minor errors in logic - deduct 2 marks Minor errors in THEN or ELSE - deduct 2 marks Evidence of =IF used - 1 mark only	<b>10</b>		<b>Printout 4</b>	
5d	Formulas in cells <b>F5:H5</b> replicated to remaining bulbs	<b>1</b>	y	<b>Printout 4</b>	
6a	Columns <b>B, C</b> and <b>D</b> hidden. Only award if row and column headings present	<b>2</b>		<b>Printout 4</b>	
6c	Formula printout	<b>1</b>		<b>Printout 4</b>	<b>5</b>
	All formulas fully displayed	<b>1</b>			
	Gridlines, row and column headings	<b>1</b>			
7b	Correct data selected	<b>1</b>		<b>Printout 5</b>	<b>5</b>
	Presented as a stacked bar chart Percentage stacked bar chart - 2 mark only Bar chart not stacked – 1 mark only	<b>3</b>	y	<b>Printout 5</b>	
7c/d	Chart title <b>Bulb Sales</b> , with axes labels and titles correct and appropriate legend positioned to the right of the chart	<b>1</b>	y	<b>Printout 5</b>	
<b>Total</b>					<b>24</b>

	<b>Task C – Record of file names produced during test</b>	<b>Mark</b>	<b>&lt; L3</b>	<b>Refer to</b>	<b>Maximum Mark</b>
8a	Screen dump of all files produced by the candidate during this test. Minimum should be 1 database file and 1 spreadsheet file related to this test.	<b>1</b>		<b>Printout 6</b>	<b>1</b>

**Total:** 1

**TOTAL NUMBER OF MARKS FOR TEST: 50**

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## Key Skills Information and communication technology Level 3 Exemplar Output "Plants"

The screenshot displays the Microsoft Access interface. At the top, a window titled 'Stock : Table' shows a table structure with the following fields:

Field Name	Data Type	Description
Category	Text	
Name	Text	
Variety	Text	
Code	Text	
ReferenceID	Text	
Unit	Number	
Price	Currency	
Height	Text	

Below the table structure is the 'Field Properties' window, which is currently set to the 'Lookup' tab. The properties for the 'Height' field are as follows:

Property	Value
Field Size	1
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	= "S" Or "M" Or "T"
Validation Text	Enter S, M or T only
Required	No
Allow Zero Length	No
Indexed	No
Unicode Compression	No

To the right of the 'Field Properties' window, there is a text box containing the following message:

The error message that appears when you enter a value prohibited by the validation rule. Press F1 for help on validation text.

## Short and medium plants with red flowers

Category	Name	Variety	Code	ReferenceID	Price	Height
Fuchsia						
	Dancing Flame	Lagan	R	U25	£6.95	M
	Darkeyes	Bann	RW	U21	£6.50	S
	Thalia	Strule	PR	U37	£6.50	S
Patio						
	Carnation	Trailing	RP	B35	£8.25	M
Perennial						
	Phlox	Edward	RW	P46	£3.30	S
Shrub						
	Camellia	Sure Red	R	S60	£13.00	M
	Hebe	Varigata	VR	S21	£20.50	S

## 2005 Bulb Sales

Target Profit £500

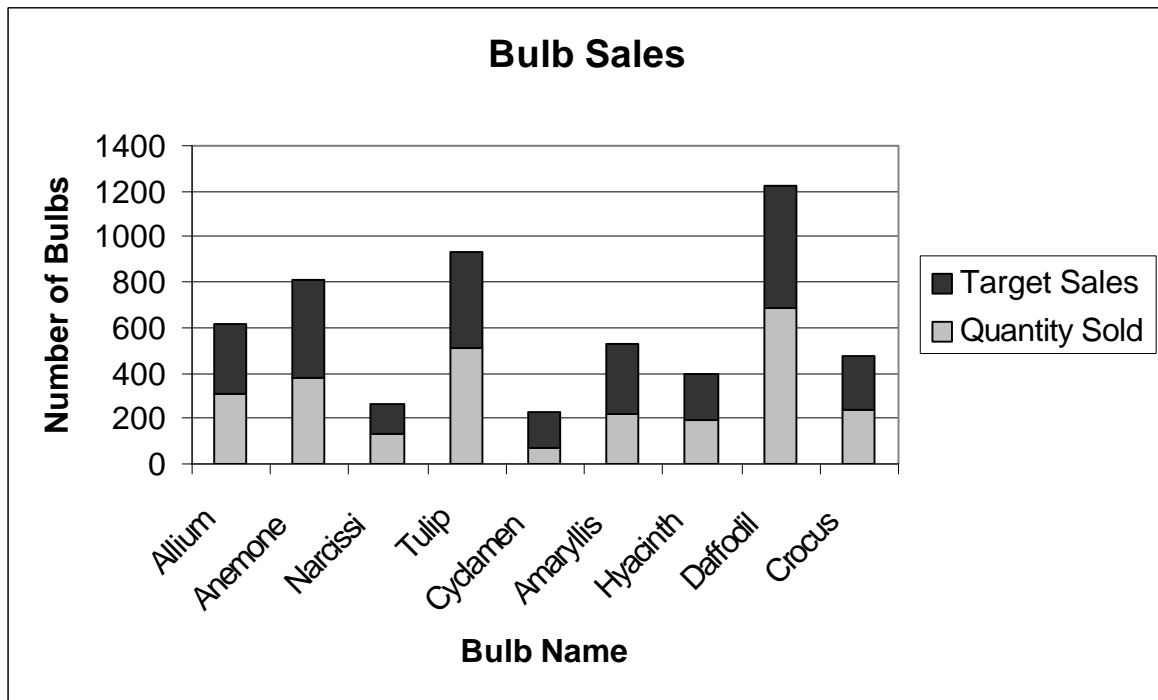
Bulb	Costs	Quantity Sold	Target Sales	Retail Price	Income	Profit	Review
Allium	£2,000.00	309	308	£8.95	£2,765.55	£765.55	Good
Anemone	£2,000.00	381	429	£5.95	£2,266.95	£266.95	Poor
Narcissi	£1,200.00	132	132	£13.15	£1,735.80	£535.80	Good
Tulip	£3,000.00	508	429	£13.15	£6,680.20	£3,680.20	Good
Cyclamen	£300.00	74	154	£7.45	£551.30	£251.30	Poor
Amaryllis	£600.00	216	308	£5.95	£1,285.20	£685.20	Poor
Hyacinth	£450.00	198	198	£4.95	£980.10	£530.10	Good
Daffodil	£3,000.00	684	539	£10.90	£7,455.60	£4,455.60	Good
Crocus	£200.00	242	231	£2.50	£605.00	£405.00	Poor

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Date

Printout-3

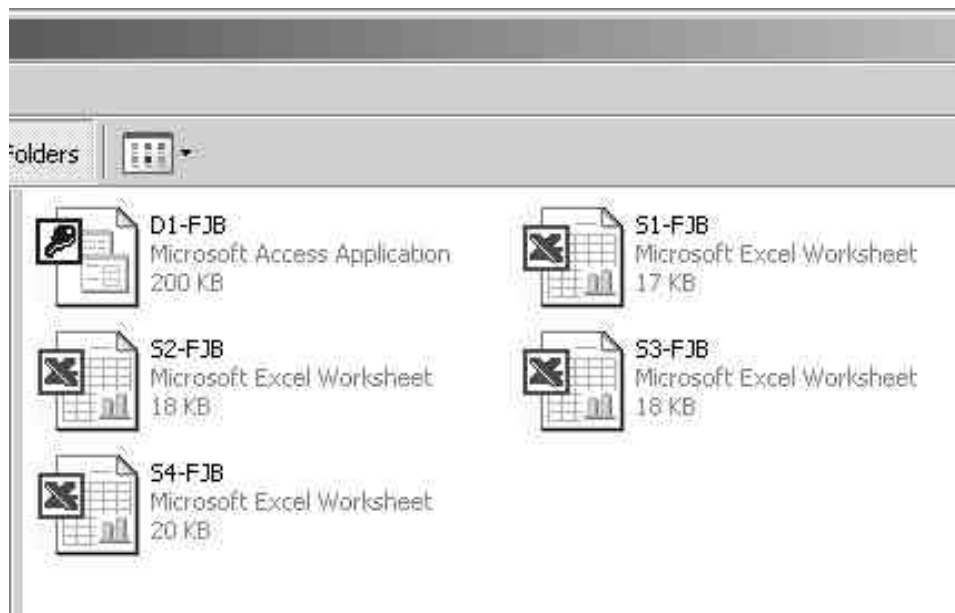
	A	E	F	G	H
1	2005 Bulb Sales				
2		0.1		Target Profit	500
3					
4	Bulb	Retail Price	Income	Profit	Review
5	Allium	8.95	=C5*E5	=F5-B5	=IF(AND(C5>=D5,G5>=\$H\$2),"Good","Poor")
6	Anemone	5.95	=C6*E6	=F6-B6	=IF(AND(C6>=D6,G6>=\$H\$2),"Good","Poor")
7	Narcissi	13.15	=C7*E7	=F7-B7	=IF(AND(C7>=D7,G7>=\$H\$2),"Good","Poor")
8	Tulip	13.15	=C8*E8	=F8-B8	=IF(AND(C8>=D8,G8>=\$H\$2),"Good","Poor")
9	Cyclamen	7.45	=C9*E9	=F9-B9	=IF(AND(C9>=D9,G9>=\$H\$2),"Good","Poor")
10	Amaryllis	5.95	=C10*E10	=F10-B10	=IF(AND(C10>=D10,G10>=\$H\$2),"Good","Poor")
11	Hyacinth	4.95	=C11*E11	=F11-B11	=IF(AND(C11>=D11,G11>=\$H\$2),"Good","Poor")
12	Daffodil	10.9	=C12*E12	=F12-B12	=IF(AND(C12>=D12,G12>=\$H\$2),"Good","Poor")
13	Crocus	2.5	=C13*E13	=F13-B13	=IF(AND(C13>=D13,G13>=\$H\$2),"Good","Poor")



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Date

Printout-5



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Date

Printout-6