

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/31 March 2019

Paper 3 Practical Test B MARK SCHEME Maximum Mark: 80

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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

Cambridge International is publishing the mark schemes for the March 2019 series for most Cambridge IGCSE[™], Cambridge International A and AS Level components and some Cambridge O Level components.

This syllabus is regulated for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

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.

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.

Evidence 1

4 from: Text can't be read by age group Text too small Too many colours Complex text – turquoise Not intuitive / better to click on colour Text reader relates sound to word

Evidence 2

1 mark each:

- a) presentation
- b) structure/content
- c) presentationd) behaviour

Evidence 3

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4 marks

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Evidence 4

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Native British trees and shrubs

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Screen shot A1 to M5 – Row and column headings and fully

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Code Category Height (m) Loode Toode Doode Likes Tolerates Dislikes Evergreen Notes 4 Commos name Latia same Ainus glutinosa UT. 25 w N

Gloria's Glorious Gardens

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Evidence 7

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5 Alder

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March 2019

		Header	Candidate details on right	A Candidate ZZ999 9999
	A	B	Cell	D5 VLOOKUP () 1
				Reference to cell C5 (Code) 1
				Category.csv!\$A\$2:\$B\$7
3				As absolute reference
1				,2,False or ,2,0
2				7 /
3	Common name	Latin name	Category	Height (m)
-	Alder			25
		Alnus glutinosa	=VLOOKUP(C5,Category.csv!\$A\$2:\$B\$7,2,0)	25
-	Silver birch Hornbeam	Betula pendula	=VLOOKUP(C6,Category.csv15A52:\$B\$7,2,0)	25
-	Beech	Carpinus betulus	=VLOOKUP(C7,Category.csv!\$A\$2:\$B\$7,2,0)	25
		Fagus sylvatica Fraxinus excelsion	=VLOOKUP(C8,Category.csv1\$A\$2:\$B\$7,2,0)	30
_	Ash		=VLOOKUP(C9,Category.csv!\$A\$2:\$B\$7,2,0)	
	Holly	llex aquifolium	=VLOOKUP(C10,Category.csv!\$A\$2:\$B\$7,2,0)	25
	Scots pine	Pinus sylvestris	=VLOOKUP(C11,Category.csv!\$A\$2:\$B\$7,2,0)	30
	black poplar	Populus nigraijsubsp. ijbetulifolia	=VLOOKUP(C12,Category.csv1\$A\$2:\$8\$7,2,0)	35
	Sessile oak	Quercus petraea	=VLOOKUP(C13,Category.csvl\$A\$2:\$8\$7,2,0)	30
-	English oak	Quercus robur	=VLOOKUP(C14,Category.csv!\$A\$2:\$B\$7,2,0)	35
	White willow	Saltx alba	=VLOOKUP(C15,Category.csv1\$A\$2:\$8\$7,2,0)	25
	Crack willow	Salix fragilis	=VLOOKUP(C16,Category.csv!\$A\$2:\$B\$7,2,0)	25
	Small-leaved lime	Tilia cordataÿ	=VLOOKUP(C17,Category.csv!\$A\$2:\$B\$7,2,0)	25
the second se	Large-leaved lime	Tilia platyphyllosÿ	=VLOOKUP(C18,Category.csv!\$A\$2:\$B\$7,2,0)	30
_	Wych elm	Ulmus glabraÿ	=VLOOKUP(C19,Category.csv!\$A\$2:\$B\$7,2,0)	35
20	Small-leaved elm	Ulmus minorÿ	=VLOOKUP(C20,Category.csv!\$A\$2:\$8\$7,2,0)	30
_	Plot's elm	Ulmus plotiiÿ	=VLOOKUP(C21,Category.csv!\$A\$2:\$8\$7,2,0)	30
22	English elm	Ulmus proceraÿ	=VLOOKUP(C22,Category.csv!\$A\$2:\$8\$7,2,0)	40
23	Downy birch	Betula pubescensÿ	=VLOOKUP(C23,Category.csv!\$A\$2:\$B\$7,2,0)	20
24	Hawthorn	Crataegus monogynaÿ	=VLOOKUP(C24,Category.csv1\$A\$2:\$8\$7,2,0)	10
25	Aspen	Populus tremulaÿ	=VLOOKUP(C25,Category.csv!\$A\$2:\$B\$7,2,0)	20
26	Wild cherry	Prunus aviumų	=VLOOKUP(C26,Category.csv!\$A\$2:\$B\$7,2,0)	20
27	Bird cherry	Prunus padusÿ	=VLOOKUP(C27,Category.csv!\$A\$2:\$B\$7,2,0)	15
28	Goat willow	Salix capreaÿ	=VLOOKUP(C28,Category.csv1\$A\$2:\$B\$7,2,0)	10
29	Bay willow	Salix pentandraÿ	=VLOOKUP(C29,Category.csv!\$A\$2:\$B\$7,2,0)	10

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A Candidate Z2999 9999

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2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Tolerates =IF[G5⇔"",VLOOKUP[G5,TreeCodes.csv!\$A\$2:\$B\$9,2,0],"") =IF[G7⇔"",VLOOKUP[G6,TreeCodes.csv!\$A\$2:\$B\$9,2,0],""] =IF[G7⇔"",VLOOKUP[G6,TreeCodes.csv!\$A\$2:\$B\$9,2,0],""]	
8 =IF(F8<", VLOOKUP(F8, TreeCodes.csv1\$A\$2:58\$9,2,0), "") 9 =IF(F9<)", VLOOKUP(F9, TreeCodes.csv1\$A\$2:58\$9,2,0), "")	=IF(=IF(Cell I5 =IF()	1
0 =IF(F10~"",VLOOKUP(F10,TreeCodes.csv15A52:5859,2,0),"")	===== =====	1
1 =IF(F11<>"",VLOOKUP(F11,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IFIC VLOOKUP (F5,)	1
2 =IF(F12<>"",VLOOKUP(F12,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	TreeCodes.csv!\$A\$2:\$B\$9,2,0	1
3 =IF(F13<"",VLOOKUP(F13,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=1F(0, ,""	1
4 =IF(F14 "", VLOOKUP(F14, TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	Working formulae in J5 and K5	1
5 =IF(F15<>"",VLOOKUP(F15,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G15<>"",VLOOKUP(G15,TreeCodes.csv!\$A\$Z:\$8\$9,2,0),"")	T
6 =IF(F16⇔"",VLOOKUP(F16,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G16->"",VLOOKUP(G16,TreeCodes.csv!\$A\$2:\$B\$9,2,0),"")	
7 =IF(F17<>"",VLOOKUP(F17,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G17<>"",VLOOKUP(G17,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
8 =IF(F18⇔"",VLOOKUP(F18,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G18<"",VLOOKUP(G18,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
9 =IF(F19 "", VLOOKUP(F19, TreeCodes.csvl\$A\$2:\$8\$9,2,0), "")	=IF(G19 ",VLOOKUP(G19,TreeCodes.csv/\$A\$2:\$8\$9,2,0),"")</td <td></td>	
10 =IF(F20\$\circ\$",VLOOKUP(F20,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G20 -, VLOOKUP(G20, TreeCodes.csv!\$A\$2:\$8\$9,2,0), "")	
1 =IF(F21<>"",VLOOKUP(F21,TreeCodes.csv/\$A\$2:\$8\$9,2,0),"")	=IF(G21<>"",VLOOKUP(G21,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
2 =IF(F22<>"",VLOOKUP(F22,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G22<>"",VLOOKUP(G22,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
3 =IF(F23 -***, VLOOKUP(F23, TreeCodes.csv1\$A\$2:\$8\$9,2,0),***)	=IF(G23<>"",VLOOKUP(G23,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	
4 =IF(F24<>"",VLOOKUP(F24,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G24<>"",VLOOKUP(G24,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
5 =IF(F25<>"",VLOOKUP(F25,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G25<>"",VLOOKUP(G25,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
6 =IF(F26<>"",VLOOKUP(F26,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G26<>"",VLOOKUP(G26,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
7 =IF(F27\circ)",VLOOKUP(F27,TreeCodes.csv!\$A\$2:\$B\$9,2,0),"")	=IF(G27 -> "", VLOOKUP(G27, TreeCodes.csv!\$A\$2:\$8\$9,2,0), "")	
28 =IF(F28<)",VLOOKUP(F28,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G28<>"",VLOOKUP(G28,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	
29 =IF(F29\circ)",VLOOKUP(F29,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	=IF(G29<>"",VLOOKUP(G29,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	

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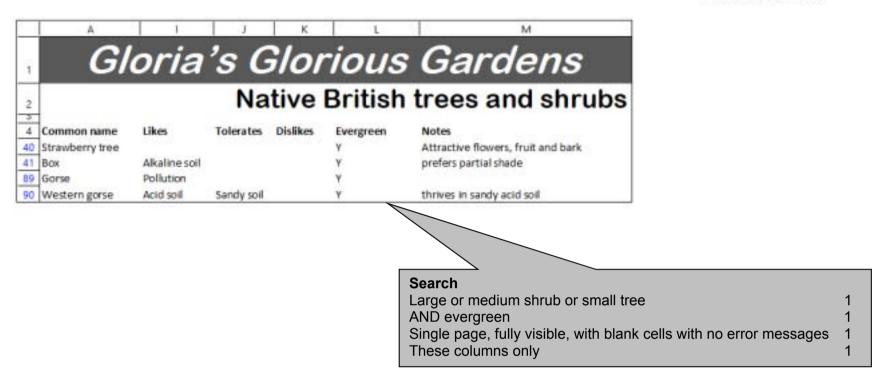
A Candidate ZZ999 9999

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2	INALIVE	DIILIS	in thees and shirubs	
3	Dislikes	Evergreen	Notes	
5	=IF(H5 ",VLOOKUP(H5,TreeCodes.csv1\$A\$2:\$B\$9,2,0),"")	N	THOLE S	
6	=IF(H6 -> "", VLOOKUP(H6, TreeCodes.csv1\$A\$2:\$B\$9,2,0), "")	N	attractive white bark	
7	#IF(H7<>"",VLOOKUP(H7,TreeCodes.csv!\$A\$2:58\$9,2,0),"")	N	good for hedging	
8	=IF(H8<)",VLOOKUP(H8,TreeCodes.csv1\$A\$2:\$B\$9,2,0),"")	N	good for hedging and chalky soils	
9	=IF(H9<)", VLOOKUP(H9, TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N	seeds freely	
10	- · · · · · · · · · · · · · · · · · · ·	Y	attractive berries on female forms	
11	=IF(H11<>"",VLOOKUP(H11,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	Y	good specimen tree	
12	=IF(H12<>"",VLOOKUP(H12,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	N	pollution-tolerant	
13	=IF(H13<>"",VLOOKUP(H13,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N	good specimen tree	
14	=IF(H14<>"",VLOOKUP(H14,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	N	end maximen tree	
15	=IF(H15<>"",VLOOKUP(H15,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N	Replication all 4 columns	1
16	=IF(H16<>"",VLOOKUP(H16,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N	Hidden Columns C, F, G, H	1
17	=IF(H17<>"",VLOOKUP(H17,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N		
18	=IF(H18<>"",VLOOKUP(H18,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	N	prefers chalky soil	
19	=IF(H19<>"",VLOOKUP(H19,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	N	susceptible to Dutch elm disease	
20		N	susceptible to Dutch elm disease	
21	=IF(H21<>"",VLOOKUP(H21,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N	susceptible to Dutch elm disease	
22	=IF(H22<>"",VLOOKUP(H22,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N	susceptible to Dutch elm disease	
23	=IF(H23<>"",VLOOKUP(H23,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N		
24	=IF(H24<>"",VLOOKUP(H24,TreeCodes.csv!\$A\$2:\$8\$9,2,0),"")	N	attractive berries	
25	=IF(H25<>"",VLOOKUP(H25,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	N	tolerant of most soils	
26		N	attractive flowers and fruits	
27	=IF(H27<>"",VLOOKUP(H27,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	N	fragrant flowers	
28		N	yellow catkins on male trees	
29	=IF(H29<>"",VLOOKUP(H29,TreeCodes.csv1\$A\$2:\$8\$9,2,0),"")	N	showy catkins on male trees	

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