Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 3 Data Analysis and Website Authoring MARK SCHEME Maximum Mark: 80 04171/31 February/March 2022

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 February/March 2022 series for most Cambridge IGCSE[™], Cambridge International A and AS Level components and some Cambridge O Level components.

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.

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1	Burundi
2	Democratic Republic of Congo
3	Ethiopia
4	Kenya
5	Malawi
6	Mozambique
7	Rwanda
8	Tanzania
9	Uganda
10	Zambia

Screenshot	Saved as Country_centre_candidate number	1 mark
	Row 1 deleted	1 mark
	Country column remains (others deleted)	1 mark
	No duplicate data	1 mark
Header	Created by: name, centre, cand no on left	1 mark
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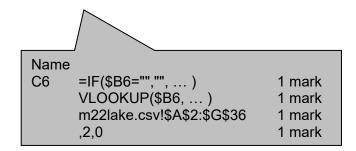
	В	
1		
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3		Country
5	Code	
6	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A6,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A6,0),"")	
7	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A7,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A7,0),"")	
8	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A8,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A8,0),"")	
9	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A9,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A9,0),"")	
10	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A10,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A10,0),"")	
11	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A11,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A11,0),"")	
12	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A12,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A12,0),"")	
13	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A13,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A13,0),"")	
14	=IF(VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A14,0)<>0,VLOOKUP(\$C\$3,m22grid.csv!\$A\$2:\$J\$11,A14,0),"")	

\bigvee	Lookup	Column A not visible VLOOKUP() C3 as an absolute reference ,m22grid.csv!		1 mark 1 mark 1 mark 1 mark 1 mark
	B6	A2:J11 as an absolute reference ,A6 ,0 =IF(correct syntax) ' <i>Lookup</i> ' function <> 0 or "" ,' <i>Lookup</i> ' ,""	= 0 or "" ,"", ' <i>Lookup</i> '	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark
	Replication	from B6 to B14	, , <u> </u>	1 mark

	с	D
1		Lake finder by country
3	Ethiopia	
4		1 (l 0)
5	Name	Area (km2)
6	=IF(\$B6="","",VLOOKUP(\$B6,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B6="","",VLOOKUP(\$B6,m22lake.csv!\$A\$2:\$G\$36,4,0))
7	=IF(\$B7="","",VLOOKUP(\$B7,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B7="","",VLOOKUP(\$B7,m22lake.csv!\$A\$2:\$G\$36,4,0))
8	=IF(\$B8="","",VLOOKUP(\$B8,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B8="","",VLOOKUP(\$B8,m22lake.csv!\$A\$2:\$G\$36,4,0))
9	=IF(\$B9="","",VLOOKUP(\$B9,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B9="","",VLOOKUP(\$B9,m22lake.csv!\$A\$2:\$G\$36,4,0))
10	=IF(\$B10="","",VLOOKUP(\$B10,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B10="","",VLOOKUP(\$B10,m22lake.csv!\$A\$2:\$G\$36,4,0))
11	=IF(\$B11="","",VLOOKUP(\$B11,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B11="","",VLOOKUP(\$B11,m22lake.csv!\$A\$2:\$G\$36,4,0))
12	=IF(\$B12="","",VLOOKUP(\$B12,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B12="","",VLOOKUP(\$B12,m22lake.csv!\$A\$2:\$G\$36,4,0))
13	=IF(\$B13="","",VLOOKUP(\$B13,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B13="","",VLOOKUP(\$B13,m22lake.csv!\$A\$2:\$G\$36,4,0))
14	=IF(\$B14="","",VLOOKUP(\$B14,m22lake.csv!\$A\$2:\$G\$36,2,0))	=IF(\$B14="","",VLOOKUP(\$B14,m22lake.csv!\$A\$2:\$G\$36,4,0))

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=IF(\$B6="","",VLOOKUP(\$B6,m22lake.csv!\$A\$2:\$G\$36,4,0))	1 mark

	E	F
1		
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5	Elevation (m)	Depth (max)
6	=IF(\$B6="","",VLOOKUP(\$B6,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B6="","",VLOOKUP(\$B6,m22lake.csv!\$A\$2:\$G\$36,6,0))
7	=IF(\$B7="","",VLOOKUP(\$B7,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B7="","",VLOOKUP(\$B7,m22lake.csv!\$A\$2:\$G\$36,6,0))
8	=IF(\$B8="","",VLOOKUP(\$B8,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B8="","",VLOOKUP(\$B8,m22lake.csv!\$A\$2:\$G\$36,6,0))
9	=IF(\$B9="","",VLOOKUP(\$B9,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B9="","",VLOOKUP(\$B9,m22lake.csv!\$A\$2:\$G\$36,6,0))
10	=IF(\$B10="","",VLOOKUP(\$B10,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B10="","",VLOOKUP(\$B10,m22lake.csv!\$A\$2:\$G\$36,6,0))
11	=IF(\$B11="","",VLOOKUP(\$B11,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B11="","",VLOOKUP(\$B11,m22lake.csv!\$A\$2:\$G\$36,6,0))
12	=IF(\$B12="","",VLOOKUP(\$B12,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B12="","",VLOOKUP(\$B12,m22lake.csv!\$A\$2:\$G\$36,6,0))
13	=IF(\$B13="","",VLOOKUP(\$B13,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B13="","",VLOOKUP(\$B13,m22lake.csv!\$A\$2:\$G\$36,6,0))
14	=IF(\$B14="","",VLOOKUP(\$B14,m22lake.csv!\$A\$2:\$G\$36,5,0))	=IF(\$B14="","",VLOOKUP(\$B14,m22lake.csv!\$A\$2:\$G\$36,6,0))

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-	
3	
4	
5	Water
6	=IF(\$B6="","",VLOOKUP(\$B6,m22lake.csv!\$A\$2:\$G\$36,7,0))
7	=IF(\$B7="","",VLOOKUP(\$B7,m22lake.csv!\$A\$2:\$G\$36,7,0))
8	=IF(\$B8="","",VLOOKUP(\$B8,m22lake.csv!\$A\$2:\$G\$36,7,0))
9	=IF(\$B9="","",VLOOKUP(\$B9,m22lake.csv!\$A\$2:\$G\$36,7,0))
10	=IF(\$B10="","",VLOOKUP(\$B10,m22lake.csv!\$A\$2:\$G\$36,7,0))
11	=IF(\$B11="","",VLOOKUP(\$B11,m22lake.csv!\$A\$2:\$G\$36,7,0))
12	=IF(\$B12="","",VLOOKUP(\$B12,m22lake.csv!\$A\$2:\$G\$36,7,0))
13	=IF(\$B13="","",VLOOKUP(\$B13,m22lake.csv!\$A\$2:\$G\$36,7,0))
14	=IF(\$B14="","",VLOOKUP(\$B14,m22lake.csv!\$A\$2:\$G\$36,7,0))

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Lake finder by country

Country Kenya

Code	Name	Area (km2)	Elevation (m)	Depth (max)	Water
L1	Lake Bogoria	34	990	10	Salt
L2	Lake Nakuru	45	1760	2	Fresh
L3	Lake Elementaita	18	1670	1.5	Salt
L4	Lake Victoria	59947	1135	83	Fresh
L30	Lake Turkana	6405	360	125	Salt
L32	Lake Logipi	15	577	5	Salt
L33	Lake Boringo	168	1000	10	Salt
L34	Lake Naivasha	139	1884	30	Fresh
L35	Lake Magadi	100	579	1	Salt

Formatting	Cells B1:G1 and C3:G3 merged	1 mark
	Rows 2 and 4 smaller in height than row 5	1 mark
	Row 1 – Large white text on black background	1 mark
	All text sans-serif	1 mark
	Cell borders on C3:G3 and B5:G14 only	1 mark
Values	Data entered for Kenya with correct results	1 mark
	B1:G14 as single page, fully visible, no row and col heads	1 mark

Lake finder by country						
Country	Tanzania					
Code	Name	Area (km2)	Elevation (m)	Depth (max)	Water	
L5	Lake Victoria	59947	1135	83	Fresh	
L9	Lake Tanganyika	32900	773	1470	Fresh	
L15	Lake Malawi	29600	500	706	Fresh	
			Values	Print as	above	

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Lake finder by country

Country Burundi

Code	Name	Area (km2)	Elevation (m)	Depth (max)	Water		
L7	Lake Victoria	59947	1135	83	Fresh		
L12	Lake Tanganyika	32900	773	1470	Fresh		
			Values	Print as	above	for Burundi with correct results	1 mark
					1	-	