



Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/31

Paper 3 Practical Test B

March 2020

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 2020 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of **8** printed pages.

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.

A Candidate ZZ999 9999

Just-Dive-4-Rust		
Dive planner		
	Dive 1	Dive 2
Wreck code	O	A
Wreck name	Opel	Albatross
Depth	26	16
Planned dive time		
Safe?		

Mark from any printout		
Spreadsheet	Row 10 inserted	1 mark
Row 1	A1 to C1 merged	1 mark
	Serif centre aligned font	1 mark
	White large font	1 mark
	Dark blue background	1 mark
Rows 2 and 4	Less than height of rows 5/6	1 mark
Row 3	Serif, bold font, larger than rows 5/6	1 mark
	Centre aligned text	1 mark
	Pale blue background	1 mark
	Black border around merged cell	1 mark
Row 5	Bold & centre aligned	1 mark

Last edited on 28/04/2019

Mark from any printout		
Header	Name, centre and candidate number on left	1 mark
Footer	Last edited on & automated date in centre	1 mark

		C	
Just-Dive-4-Rust			
1			
3			
5		Dive 1	
6	Wreck code	O	
7	Wreck name	=VLOOKUP(B6,Wreck.csv!\$A\$3:\$B\$23,2,0)	=VLOOKUP(C6,Wreck.csv!\$A\$3:\$B\$23,2,0)
8	Depth	=VLOOKUP(B6,Wreck.csv!\$A\$3:\$C\$23,3,0)	=VLOOKUP(C6,Wreck.csv!\$A\$3:\$C\$23,3,0)
9	Planned dive time		
10			
11	Safe?	=IF(C8>B8,"Unsafe, second dive is deeper","Yes")	

Wreck name =VLOOKUP () used 1 mark
 Cell reference B6, 1 mark
 As relative reference 1 mark
 External file wreck.csv, \$A\$3:\$B\$23 1 mark
 As absolute reference 1 mark
 Correct return column ,2 ,0 or ,False 1 mark

Depth =VLOOKUP () 1 mark
 Cell reference B6 1 mark
 wreck.csv!\$A\$3:\$C\$23 ,3,0 1 mark
 Replication B7 and B8 replicated to column C 1 mark

Safe? =IF(...) 1 mark
 C8>B8, 1 mark
 "Unsafe, second dive is deeper" 1 mark
 ,"Yes" 1 mark
 Cells A1 to C11 only printed 1 mark
 Row and column headings 1 mark
 Landscape & fully visible 1 mark

A Candidate ZZ999 9999

Just-Dive-4-Rust		
Dive planner		
	Dive 1	Dive 2
Wreck code	A	O
Wreck name	Albatross	Opel
Depth	16	26
Planned dive time		
Safe?	Unsafe, second dive is deeper	

Data entry Wrecks A and O 1 mark
 Extract 1 Albatross and Opel shown 1 mark
 Error message shown 1 mark
 Single page with A1:C11 visible 1 mark
 No row and column headings 1 mark

Last edited on 28/04/2019

A Candidate ZZ999 9999

Just-Dive-4-Rust		
Dive planner		
	Dive 1	Dive 2
Wreck code	O	A
Wreck name	Opel	Albatross
Depth	26	16
Planned dive time		
Safe?	Yes	

Extract 2 As above with O and A reversed 1 mark

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Evidence 1

A Candidate ZZ999 9999

Just-Dive-4-Rust		
Dive planner		
	Dive 1	Dive 2
Wreck code	A	B
Wreck name	Albatross	Brinetane
Depth	16	34
Planned dive time		
Safe?	Unsafe, second dive is deeper	
Nitrox Mix on the boat		
Dive 1		

New Formatting Rule

Select a Rule Type:

- Format all cells based on their values
- Format only cells that contain**
- Format only top or bottom ranked values
- Format only values that are above or below average
- Format only unique or duplicate values
- Use a formula to determine which cells to format

Edit the Rule Description:

Format only cells with:

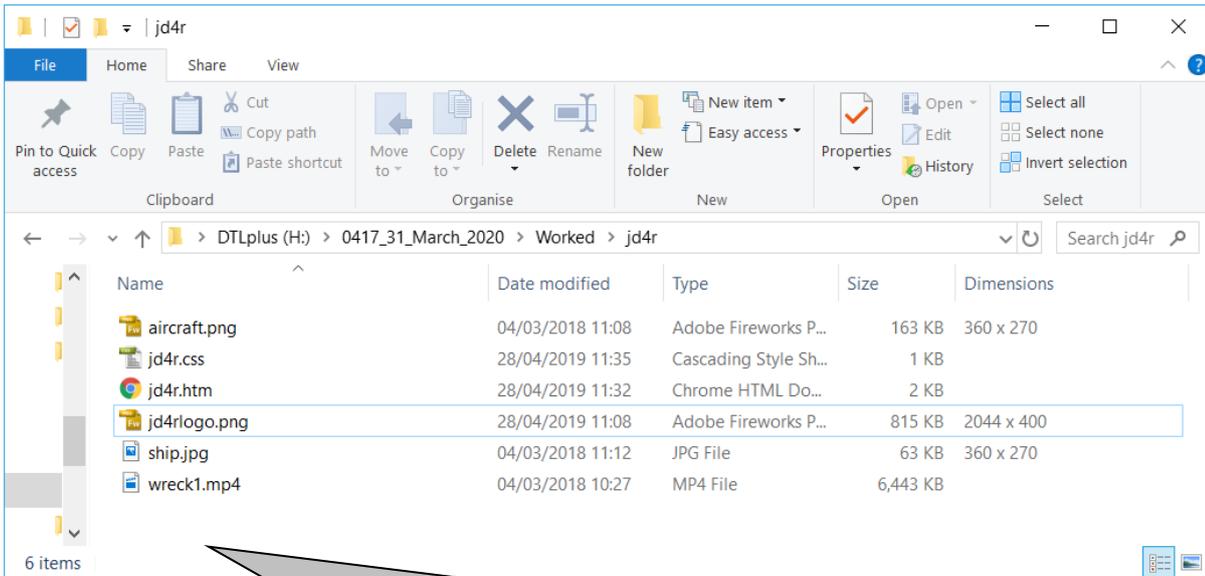
Specific Text containing Unsafe, second dive is deeper

Preview: AaBbCcYyZz Format...

OK Cancel

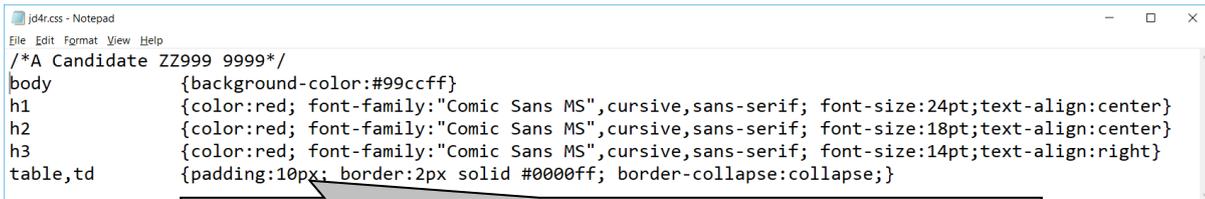
B11 & C11 Merged with conditional format ... 1 mark
 ... format only cells that contain 1 mark
 ... specific Text: "Unsafe, second dive is deeper" 1 mark
 red background with white text 1 mark

Evidence 2



Screen shot includes folder name, file names, dimensions, extensions, file sizes 1 mark

Evidence 3 – Stylesheet



comment	correct comment added at start	1 mark
table	border-collapse:collapse	1 mark
td	padding:10px	1 mark
table,td	border-width:2px	1 mark
	border-style:solid	1 mark
	border-color:#0000ff	1 mark
CSS syntax	correct css syntax	1 mark

Evidence 4 – Browser

The screenshot shows a browser window with a file path. The webpage content is as follows:

- Header: **Just-Dive-4-Rust** (with a background image of a shipwreck)
- Table structure:
 - Top row:
 - Left: **Dive Ships** (with image of divers)
 - Right: Video player (00:00 / 00:15)
 - Bottom row:
 - Left: **Dive Aircraft** (with image of a wrecked aircraft)
 - Right: **We offer some of the best wreck diving in the world.**
Edited by A Candidate ZZ999 9999

In browser	with no letters visible	1 mark
Table	Borders/gridlines visible	1 mark
	padding 10px visible	1 mark
Top row	jd4rlogo.png	1 mark
Left column	2 still images as shown	1 mark
	Just wrecked! in style h1	1 mark
Right column	Video seen	1 mark
Bottom right	Correct text entered	1 mark
	New line Edited by and cand details	1 mark
	in h2	1 mark

Evidence 5 – HTML

```

<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" type="text/css" href="jd4r.css">
</head>
<body>
  <table>
    <tr>
      <td colspan=2 style="width:1000px; height:200px;">
        
      </td>
    </tr>
    <tr>
      <td style="width:360px; height:270px">
        
      </td>
      <td rowspan=2 style="width:640px; height:390px">
        <video width="640" height="354" controls>
          <source src="wreck1.mp4" type="video/mp4">
          Your browser does not support this video type.
        </video>
      </td>
    </tr>
    <tr>
      <td style="width:360px; height:120px">
        <h1>Just wrecked!</h1>
      </td>
      <td style="width:640px; height:270px">
        
      </td>
      <td style="width:640px; height:270px">
        <h2>We offer some of the best wreck diving in the world.</h2>
        <h2>Edited by A Candidate ZZ999 9999</h2>
      </td>
    </tr>
  </table>
</body>
</html>

```

Stylesheet jd4r.css attached 1 mark

Table Width=1000 1 mark

Top row Height=200
colspan=2 1 mark
1 mark

Logo width=1000 & aspect ratio 1 mark

Row 2 left style="width:360; height:270" 1 mark

Row 2 right rowspan="2"
style="width:640; height:390" 1 mark
1 mark

video video <...> tag used ... 1 mark
... width="640" 1 mark
... height="354" 1 mark
Source<...> tag used ... 1 mark
... src="wreck1.mp4" 1 mark
type="video/mp4" 1 mark
Appropriate error message 1 mark

Row 3 left style="width:360; height:120" 1 mark

Row 4 left style="width:360; height:270" 1 mark

Row 4 right style="width:640; height:270" 1 mark

Alt attribute appropriate alt text for all 3 still images 1 mark