



# Cambridge IGCSE™

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INFORMATION AND COMMUNICATION TECHNOLOGY

0417/32

Paper 3 Practical Test B

May/June 2020

MARK SCHEME

Maximum Mark: 80

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|                         |
|-------------------------|
| <p><b>Published</b></p> |
|-------------------------|

Students did not sit exam papers in the June 2020 series due to the Covid-19 global pandemic.

This mark scheme is published to support teachers and students and should be read together with the question paper. It shows the requirements of the exam. The answer column of the mark scheme shows the proposed basis on which Examiners would award marks for this exam. Where appropriate, this column also provides the most likely acceptable alternative responses expected from students. Examiners usually review the mark scheme after they have seen student responses and update the mark scheme if appropriate. In the June series, Examiners were unable to consider the acceptability of alternative responses, as there were no student responses to consider.

Mark schemes should usually be read together with the Principal Examiner Report for Teachers. However, because students did not sit exam papers, there is no Principal Examiner Report for Teachers for the June 2020 series.

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

Cambridge International is publishing the mark schemes for the June 2020 series for most Cambridge IGCSE™ and Cambridge International A & AS Level components, and some Cambridge O Level components.

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This document consists of **10** 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:**

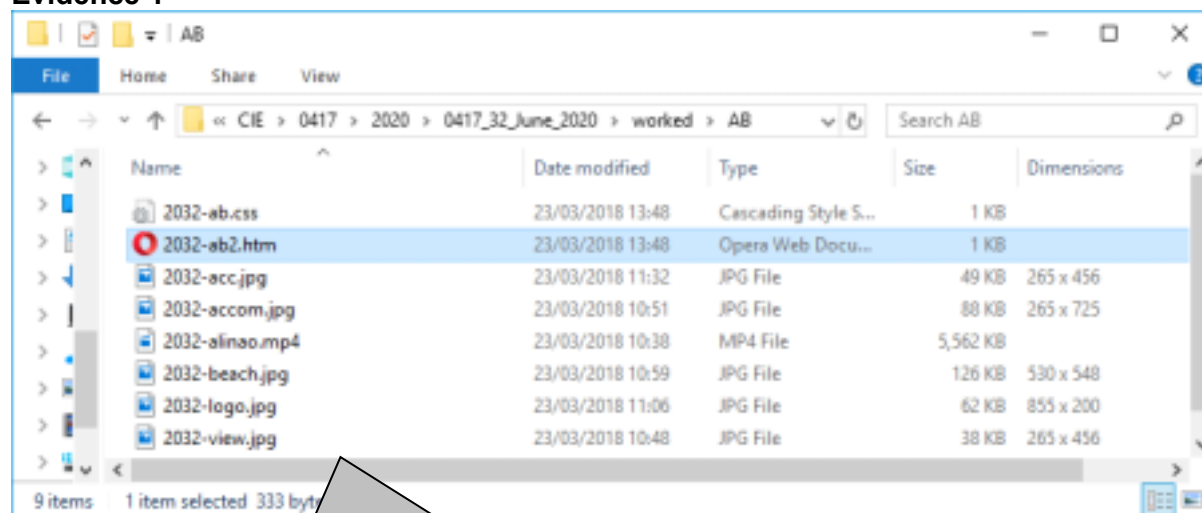
Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

**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.

**Evidence 1**

Screen shot  
2032-acc.jpg

folder name, filenames, dimensions, extensions, file sizes  
265 x 456 pixels

1 mark  
1 mark

## Evidence 2



|                                                 |        |
|-------------------------------------------------|--------|
| In browser with no letters vis                  | 1 mark |
| Borders/gridlines visible                       | 1 mark |
| 2032-logo.jpg visible                           | 1 mark |
| Video seen                                      | 1 mark |
| Location ↓ Accommodation ↓ Beach                | 1 mark |
| In h2                                           | 1 mark |
| 3 still images as shown                         | 1 mark |
| All 3 images same width (265 pixels)            | 1 mark |
| Image not distorted when cropped.               | 1 mark |
| Staggered cells visible                         | 1 mark |
| Web page last updated by A Candidate ZZ999 9999 | 1 mark |
| in h3                                           | 1 mark |

**Evidence 3**

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<link rel="stylesheet" type="text/css" href="2032-ab.css">
```

```
<Title>Alinao Beach and Dive Resort Homepage</title>
```

```
<base target="_blank">
```

```
</head>
```

```
<body>
```

|            |                      |        |
|------------|----------------------|--------|
| Stylesheet | 2032-ab.css attached | 1 mark |
| Target     | Base target="_blank" | 1 mark |

```
<table border=1>
```

```
<tr>
```

```
<td colspan=3 style="width:855px; height:200px;">
```

```

```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td colspan=3 style="height:480px;">
```

```
<video width="855" height="480" controls>
```

```
<source src="2032-alinao.mp4" type="video/mp4">
```

```
Your browser does not support this video file type.
```

```
</video>
```

```
</td>
```

```
</tr>
```

|              |                              |        |
|--------------|------------------------------|--------|
| Rows 1 and 2 |                              |        |
| Row 2        | colspan=3                    | 1 mark |
|              | height:480px                 | 1 mark |
|              | video <...> tag used ...     | 1 mark |
|              | ... width="855" height="480" | 1 mark |
|              | Source<...> tag used ...     | 1 mark |
|              | ... src="2032-alinao.mp4"    | 1 mark |
|              | type="video/mp4"             | 1 mark |
|              | Appropriate error message    | 1 mark |

```
<tr>
```

```
<td style="width:265px; height:60px;">
```

```
<h2><a href="2032-ab2.htm" target="_location">
```

```
Location</a></h2>
```

```
</td>
```

```
<td style="width:265px; height:60px;">
```

```
<h2>Accommodation</h2>
```

```
</td>
```

```
<td style="width:265px; height:60px;">
```

```
<h2>Beach</h2>
```

```
</td>
```

```
</tr>
```

|            |                                    |        |
|------------|------------------------------------|--------|
| Row 3      | All 3 cells - width:265; height:60 | 1 mark |
| Hyperlinks | Anchor around text Location        | 1 mark |
|            | Anchor around image 2032-view.jpg  | 1 mark |
|            | href="2032-ab2.htm"                | 1 mark |
|            | target="location"                  | 1 mark |

|            |                                                          |        |
|------------|----------------------------------------------------------|--------|
| Row 4      | Left 2 cells - width:265; height:456                     | 1 mark |
|            | Left 2 cells – rowspan=2                                 | 1 mark |
| Right cell | width:265; height:274                                    | 1 mark |
|            | 2032-beach Image resized to 265 wide with aspect ratio 1 | 1 mark |

```

<tr>
  <td rowspan=2 style="width:265px; height:456px;">
    <a href="2032-ab2.htm" target="_location">
      
    </a>
  </td>
  <td rowspan=2 style="width:265px; height:456px;">
    
  </td>
  <td style="width:265px; height:274px;">
    
  </td>
</tr>

```

```

<tr>
  <td style="width:265px; height:162px;">
    <h3><a

```

```

href="mailto:ab@cambridgeinternational.org?subject=Enquiry%20about%20Alinao"
">

```

```

    Web page last updated by A Candidate ZZ999 9999</a></h3>

```

```

  </td>

```

```

</tr>

```

```

</table>

```

```

</body>

```

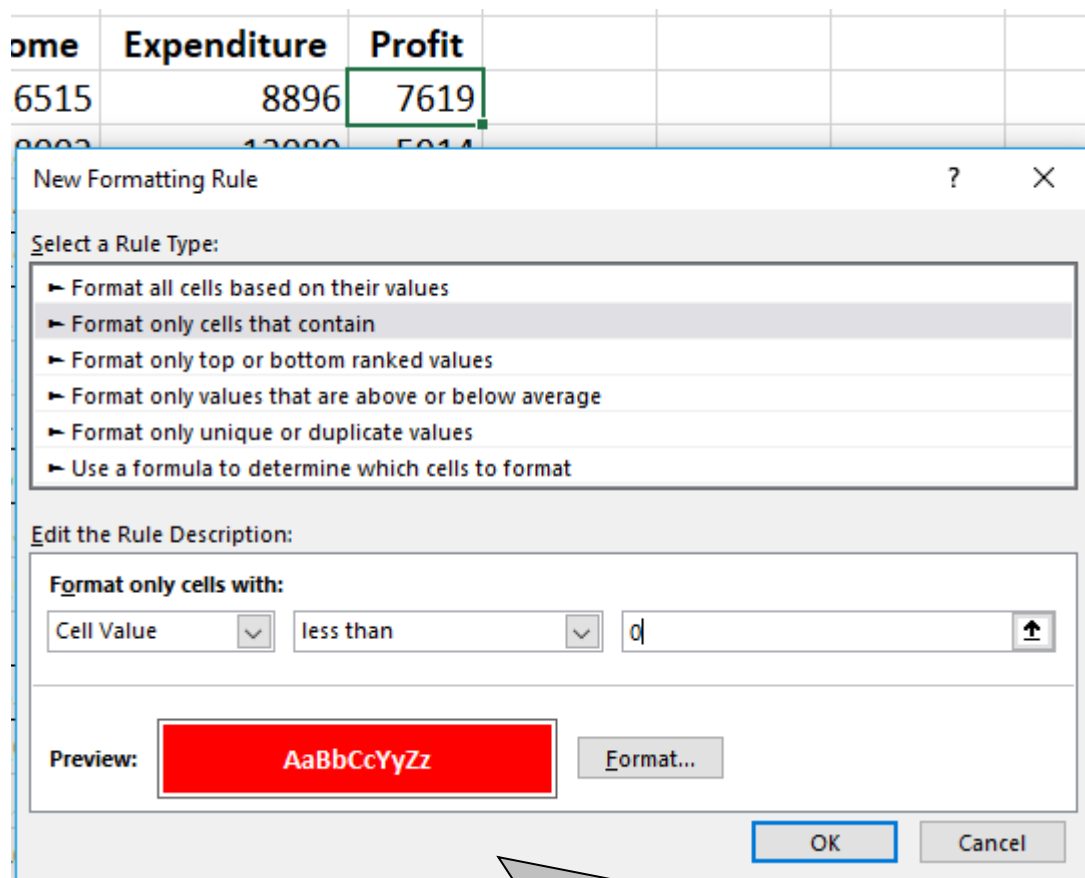
```

</html>

```

|               |                                       |        |
|---------------|---------------------------------------|--------|
| Row 5         | width:265; height:162                 | 1 mark |
| Hyperlink     | Anchor around ... all text in row 5   | 1 mark |
|               | href="mailto:                         | 1 mark |
|               | ab@cambridgeinternational.org         | 1 mark |
|               | ?subject=                             | 1 mark |
|               | Enquiry about Alinao                  | 1 mark |
| Alt attribute | appropriate alt text for all 4 images | 1 mark |

## Evidence 4



|           |                                   |        |
|-----------|-----------------------------------|--------|
| Format G9 | G9 conditional formatting applied | 1 mark |
|           | Format only cells that contain    | 1 mark |
|           | Cell value less than 0            | 1 mark |
|           | White text on red background      | 1 mark |

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|        |                                 |        |
|--------|---------------------------------|--------|
| Header | Edited by: space Name & numbers | 1 mark |
| Footer | Edited on: space date space     | 1 mark |
|        | at space automated time         | 1 mark |
| Both   | Header & Footer in centre       | 1 mark |

## Alinao Beach and Dive Resort

|                          |          |   |
|--------------------------|----------|---|
| Highest quarterly profit | \$21,865 | 2 |
| Lowest quarterly profit  | -\$3,277 |   |
| Average monthly profit   | \$4,210  |   |
| Average quarterly profit | \$12,631 |   |

|              | Quarter   | Month     | Visitors | Income    | Expenditure | Profit    |
|--------------|-----------|-----------|----------|-----------|-------------|-----------|
| <b>1</b>     |           | April     | 15       | \$16,515  | \$8,896     | \$7,619   |
|              |           | May       | 15       | \$18,003  | \$12,089    | \$5,914   |
|              |           | June      | 11       | \$14,600  | \$10,530    | \$4,070   |
|              | Sub-total |           | 41       | \$49,118  | \$31,515    | \$17,603  |
| <b>2</b>     |           | July      | 9        | \$12,048  | \$11,724    | \$324     |
|              |           | August    | 8        | \$11,724  | \$8,632     | \$3,092   |
|              |           | September | 23       | \$42,424  | \$23,975    | \$18,449  |
|              | Sub-total |           | 40       | \$66,196  | \$44,331    | \$21,865  |
| <b>3</b>     |           | October   | 22       | \$38,698  | \$19,345    | \$19,353  |
|              |           | November  | 12       | \$16,451  | \$23,041    | -\$6,590  |
|              |           | December  | 0        | \$0       | \$16,040    | -\$16,040 |
|              | Sub-total |           | 34       | \$55,149  | \$58,426    | -\$3,277  |
| <b>4</b>     |           | January   | 7        | \$10,321  | \$5,324     | \$4,997   |
|              |           | February  | 11       | \$15,087  | \$9,379     | \$5,708   |
|              |           | March     | 32       | \$40,320  | \$36,691    | \$3,629   |
|              | Sub-total |           | 50       | \$65,728  | \$51,394    | \$14,334  |
| Annual total |           |           | 165      | \$236,191 | \$185,666   | \$50,525  |

|                    |                                            |        |
|--------------------|--------------------------------------------|--------|
| Row 1              | Cells A1 to G1 merged & centre aligned     | 1 mark |
|                    | 24 point                                   | 1 mark |
|                    | Orange font with good contrast             | 1 mark |
|                    | Black background                           | 1 mark |
| A3:B6, C3 & totals | Gridlines                                  | 1 mark |
| A & B & row 8      | Bold                                       | 1 mark |
| Column A           | Right aligned                              | 1 mark |
| C & row 8          | Centre aligned                             | 1 mark |
| 4 Quarters         | 20 point                                   | 1 mark |
|                    | Centre aligned vertically and horizontally | 1 mark |
| All text           | Sans-serif font                            | 1 mark |
| Numbers            | Formatted as currency in \$ with 0dp       | 1 mark |
| Values             | Single page no row and col heads fully vis | 1 mark |

Edited by: A Candidate ZZ999 9999

|    | A                                   | B                                        | C                                                |
|----|-------------------------------------|------------------------------------------|--------------------------------------------------|
| 1  | <b>Alinao Beach and Dive Resort</b> |                                          |                                                  |
| 2  |                                     |                                          |                                                  |
| 3  | Highest quarterly profit            | =MAX(G12,G16,G20,G24)                    | =IF(B3=G12,B9,IF(B3=G16,B13,IF(B3=G20,B17,B21))) |
| 4  | Lowest quarterly profit             | =MIN(G12,G16,G20,G24)                    |                                                  |
| 5  | Average monthly profit              | =AVERAGE(G9:G11,G13:G15,G17:G19,G21:G23) |                                                  |
| 6  | Average quarterly profit            | =AVERAGE(G12,G16,G20,G24)                |                                                  |
| 7  |                                     |                                          |                                                  |
| 8  |                                     | Quarter                                  | Month                                            |
| 9  |                                     |                                          | April                                            |
| 10 |                                     |                                          | May                                              |
| 11 | 1                                   |                                          | June                                             |
| 12 | Sub-total                           |                                          |                                                  |
| 13 |                                     |                                          | July                                             |
| 14 |                                     |                                          | August                                           |
| 15 | 2                                   |                                          | September                                        |
| 16 | Sub-total                           |                                          |                                                  |
| 17 |                                     |                                          | October                                          |
| 18 |                                     |                                          | November                                         |
| 19 | 3                                   |                                          | December                                         |
| 20 | Sub-total                           |                                          |                                                  |
| 21 |                                     |                                          | January                                          |
| 22 |                                     |                                          | February                                         |
| 23 | 4                                   |                                          | March                                            |
| 24 | Sub-total                           |                                          |                                                  |
| 25 | Annual total                        |                                          |                                                  |

B3 =MAX( ... )  
... G12,G16,G20,G24 1 mark

B4 =MIN(G12,G16,G20,G24) 1 mark

B5 =AVERAGE( ... )  
... G9:G11,G13:G15,G17:G19,G21:G23 1 mark

B6 =AVERAGE(G12,G16,G20,G24) 1 mark

C3 Nested IF statements 1 mark  
To generate correct quarter 1 mark

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|    | D                | E                | F                |                  |
|----|------------------|------------------|------------------|------------------|
| 1  |                  |                  |                  |                  |
| 2  |                  |                  |                  |                  |
| 3  |                  |                  |                  |                  |
| 4  |                  |                  |                  |                  |
| 5  |                  |                  |                  |                  |
| 6  |                  |                  |                  |                  |
| 7  |                  |                  |                  |                  |
| 8  | Visitors         | Income           | Expenditure      | Profit           |
| 9  | 15               | 16515            | 8896             | =E9-F9           |
| 10 | 15               | 18003            | 12089            | =E10-F10         |
| 11 | 11               | 14600            | 10530            | =E11-F11         |
| 12 | =SUM(D9:D11)     | =SUM(E9:E11)     | =SUM(F9:F11)     | =SUM(G9:G11)     |
| 13 | 9                | 12048            | 11724            | =E13-F13         |
| 14 | 8                | 11724            | 8632             | =E14-F14         |
| 15 | 23               | 42424            | 23975            | =E15-F15         |
| 16 | =SUM(D13:D15)    | =SUM(E13:E15)    | =SUM(F13:F15)    | =SUM(G13:G15)    |
| 17 | 22               | 38698            | 19345            | =E17-F17         |
| 18 | 12               | 16451            | 23041            | =E18-F18         |
| 19 | 0                | 0                | 16040            | =E19-F19         |
| 20 | =SUM(D17:D19)    | =SUM(E17:E19)    | =SUM(F17:F19)    | =SUM(G17:G19)    |
| 21 | 7                | 10321            | 5324             | =E21-F21         |
| 22 | 11               | 15087            | 9379             | =E22-F22         |
| 23 | 32               | 40320            | 36691            | =E23-F23         |
| 24 | =SUM(D21:D23)    | =SUM(E21:E23)    | =SUM(F21:F23)    | =SUM(G21:G23)    |
| 25 | =D12+D16+D20+D24 | =E12+E16+E20+E24 | =F12+F16+F20+F24 | =G12+G16+G20+G24 |

|             |                                            |        |
|-------------|--------------------------------------------|--------|
| D12         | =SUM(D9:D11)                               | 1 mark |
| E12         | =SUM(E9:E11)                               | 1 mark |
| F12         | =SUM(F9:F11)                               | 1 mark |
| Replication | All 3 formulae replicated for all quarters | 1 mark |
| G9          | =E9-F9                                     | 1 mark |
| G12         | =SUM(G9:G11)      =E12-F12                 | 1 mark |
| Row 25      | Rows 12,16,20 and 24 added for all 4 cells | 1 mark |
|             | Row and column headings displayed          | 1 mark |
|             | Landscape and fully visible                | 1 mark |