



Oxford Cambridge and RSA

### Entry Level Certificate in Computer Science (R354) Internal Assessment Marking Sheet

Please read the instructions printed for completion of this form overleaf before completing this form. One of these marking sheets, suitably completed, should be attached to the internally assessed work of **each** candidate.

<b>R354</b>	<b>Computer Science</b>	<b>Year</b>	<b>2</b>	<b>0</b>		
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<b>Centre Name</b>		<b>Centre Number</b>				
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<b>Candidate Name</b>		<b>Candidate Number</b>				
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#### Internal Assessment Written Test: Computer Systems (CS)

<b>Computer Systems</b>		<b>Total Available Marks</b>	<b>Awarded Marks</b>
<b>Computer Systems CS1 ( CS3)</b>	<b>Teacher Comment</b>	<b>20</b>	
<b>Computer Systems CS2 (CS4)</b>	<b>Teacher Comment</b>	<b>20</b>	
<b>Total</b>		<b>40</b>	

**Internal Assessment Written Test: Computational Thinking, Algorithms and Programming (CTAP)**

<b>Computational Thinking, Algorithms and Programming</b>		<b>Total Available Marks</b>	<b>Awarded Marks</b>
<b>Computational Thinking, Algorithms and Programming CTAP1  (CTAP3)</b>	<b>Teacher Comment</b>	<b>20</b>	
<b>Computational Thinking, Algorithms and Programming CTAP2  (CTAP4)</b>	<b>Teacher Comment</b>	<b>20</b>	
<b>Total</b>		<b>40</b>	

### Internal Assessment Mark Scheme: Programming Project

	Guidance on Marks			Teacher Comment	Max Mark Available	Awarded Marks
<b>Success Criteria</b> AO1-0 AO2-3 AO3-0	There is an attempt to identify some success criteria, but these only cover part of the solution and are incomplete.  0 marks = no response or no response worthy of credit  [0 - 1]	There is an attempt to identify most success criteria adequately, and these relate to the majority of the requirements listed.  [2]	There is an attempt to convincingly identify the majority of success criteria, and these relate to the requirements listed.  [3]		3	
<b>Planning and Design</b> AO1-0 AO2-2 AO3-4	There is a statement(s) of what the intended program will do. This may not always reflect what the task requires.  There is an attempt to create a flow chart for the program, but this is incomplete or appears non-functional.	The learner has outlined how their program will work and this adequately matches any success criteria given.  There is a flow chart produced that adequately maps a working solution to the problem, although it may contain some errors.	The learner has described how their program will work and this convincingly matches the needs of the task.  There is an accurate flow chart representing the proposed solutions that convincingly produces a functional solution.		6	

	<p>There are some tests given, but these are basic and use normal data only.</p> <p>There is an attempt to identify any Input, Output and Processing needs.</p> <p>0 marks = no response or no response worthy of credit</p> <p>[0-2]</p>	<p>There are a range of tests suggested using normal and erroneous data, but do not cover the entire solution proposed.</p> <p>Input, Output and Processing needs are identified and adequately meet the solution, although may not be complete.</p> <p>[3-4]</p>	<p>There are normal and erroneous tests for all parts of the solution as needed and the tests would provide convincing evidence that the solution is effective.</p> <p>Input, Output and Processing needs are clearly identified and cover all areas of the solution.</p> <p>[5-6]</p>			
<p><b>Development</b></p> <p>AO1-0</p> <p>AO2-0</p> <p>AO3-5</p>	<p>There is evidence of some of the following techniques:</p> <ul style="list-style-type: none"> <li>• Input</li> <li>• Output</li> <li>• Data Storage</li> <li>• Selection</li> <li>• Iteration</li> <li>• Arithmetic Operators</li> <li>• Comments.</li> </ul>	<p>There is evidence of a range of the following techniques, which may not always be used efficiently:</p> <ul style="list-style-type: none"> <li>• Input</li> <li>• Output</li> <li>• Data Storage</li> <li>• Selection</li> <li>• Iteration</li> <li>• Arithmetic Operators</li> <li>• Comments.</li> </ul>	<p>There is convincing evidence of a range of the following techniques, which are generally used efficiently:</p> <ul style="list-style-type: none"> <li>• Input</li> <li>• Output</li> <li>• Data Storage</li> <li>• Selection</li> <li>• Iteration</li> <li>• Arithmetic Operators</li> <li>• Comments</li> </ul>		<b>5</b>	

	<p>There is little evidence of the development of the program, which will be limited and may not fully describe the steps taken to reach a solution.</p> <p>The explanations of the code leave doubt as to the understanding of the techniques used.</p> <p>0 marks = no response or no response worthy of credit</p> <p>[0-1]</p>	<p>There is adequate evidence showing the development of the solution, but this may contain omissions.</p> <p>The explanations adequately support the learners understanding of the techniques used.</p> <p>[2-3]</p>	<p>There is convincing evidence of the development of the solution and it provides a full narrative of the process.</p> <p>Explanations convincingly explain the learner's understanding of techniques used.</p> <p>[4-5]</p>			
<p><b>Testing and Remedial Action</b></p> <p>AO1-0</p> <p>AO2-1</p> <p>AO3-2</p>	<p>The results of limited tests are evidenced with respects to success or failure.</p> <p>There is no or little evidence given to show an attempt to correct errors that are found in the solution.</p> <p>0 marks = no response or no response worthy of credit</p>	<p>The results of most tests are evidenced with respect to success or failure.</p> <p>There is some evidence given to show that errors have been adequately solved and re-tested.</p>	<p>The results of all tests are evidenced with respect to success or failure.</p> <p>There is convincing evidence that errors have been corrected and the program is functional.</p>		<b>3</b>	

	[0-1]	[2]	[3]			
<b>Evaluation</b> AO1–2 AO2–0 AO3–1	There are limited statements about whether the solution has been successful.  The link between evidence of testing and Success Criteria is weak and vague.  0 marks = no response or no response worthy of credit	There are some statements that adequately review the success of the project.  The link between evidence of testing and Success Criteria is adequate.	There is full coverage of statements to reflect the Success Criteria.  The link between evidence of testing and Success Criteria is convincing and covers all Success Criteria.		<b>3</b>	
	[0-1]	[2]	[3]			
<b>Total</b>					<b>20</b>	
<b>Grand Total</b>					<b>100</b>	

**Please note:** This form may be updated on an annual basis. The current version of this form will be available on the OCR Subject Webpage (<http://www.ocr.org.uk/qualifications/entry-level-computer-science-r354-from-2016/#forms>). Please complete one Centre Authentication Form (CCS160) for each unit and forward to the moderator with your sample.

**Guidance on Completion of this Form**

1. **One** sheet should be used for each candidate.
2. Please ensure that the appropriate boxes at the top of the form are completed.
3. Using the guidance identify the most appropriate mark range for the work and enter the mark awarded for each element in the mark column.
4. Add appropriate comments to assist the moderator in the 'Teacher Comment' column.
5. Add the marks for the sections together to give a total out of 100. Enter this total in the relevant box.