RECOGNISING ACHIEVEMENT

GCSE

ICT A

General Certificate of Secondary Education

Unit **2357/01:** Paper 1 (Foundation Tier)

Mark Scheme for June 2011

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All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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Any enquiries about publications should be addressed to:

OCR Publications
PO Box 5050
Annesley
NOTTINGHAM
NG15 0DL

Telephone: 0870 770 6622
Facsimile: 01223 552610
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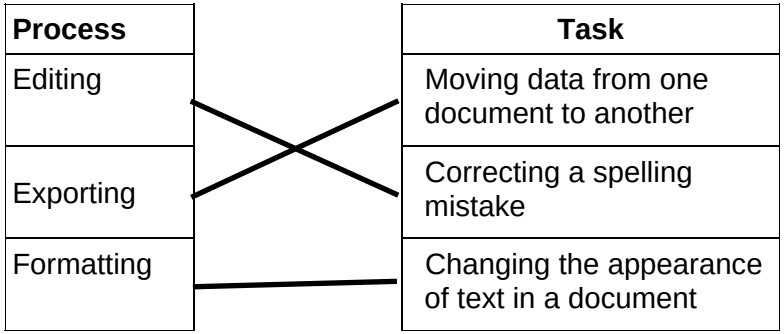
<table>
<tr><th colspan="3">Question</th><th>Expected Answer</th><th>Mark</th><th>Rationale/Additional Guidance</th></tr>
<tr><td>1</td><td>(a)</td><td></td><td>Ticks as shown.

<table>
<tr><th>Task</th><th>Word processor (✓)</th><th>Spreadsheet (✓)</th><th>Computer Aided Design (CAD) (✓)</th><th>Data logging (✓)</th></tr>
<tr><td>Calculating the costs of a trip</td><td></td><td>✓</td><td></td><td></td></tr>
<tr><td>Collecting readings from sensors</td><td></td><td></td><td></td><td>✓</td></tr>
<tr><td>Creating a 3D model of an object</td><td></td><td></td><td>✓</td><td></td></tr>
<tr><td>Writing a letter</td><td>✓</td><td></td><td></td><td></td></tr>
</table></td><td>[4]</td><td></td></tr>
<tr><td>2</td><td></td><td></td><td>Ticks as shown.

<table>
<tr><th>Item</th><th>Hardware (✓)</th><th>Software (✓)</th></tr>
<tr><td>CD drive</td><td>✓</td><td></td></tr>
<tr><td>Mouse</td><td>✓</td><td></td></tr>
<tr><td>Web browser</td><td></td><td>✓</td></tr>
</table></td><td>[3]</td><td></td></tr>
</table>

<table>
<tr><th colspan="3">Question</th><th>Expected Answer</th><th>Mark</th><th>Rationale/Additional Guidance</th></tr>
<tr><td>3</td><td></td><td></td><td>Lines as shown:

Lines as shown:
 
</td><td>[3]</td><td></td></tr>
<tr><td>4</td><td>(a)</td><td></td><td>Ticks as shown.

<table>
<tr><th></th><th>Header (✓)</th><th>Footer (✓)</th><th>Page number (✓)</th><th>Graphic (✓)</th><th>Margin (✓)</th></tr>
<tr><td>A</td><td>✓</td><td></td><td></td><td></td><td></td></tr>
<tr><td>B</td><td></td><td>✓</td><td></td><td></td><td></td></tr>
<tr><td>C</td><td></td><td></td><td>✓</td><td></td><td></td></tr>
<tr><td>D</td><td></td><td></td><td></td><td></td><td>✓</td></tr>
<tr><td>E</td><td></td><td></td><td></td><td>✓</td><td></td></tr>
</table></td><td>[5]</td><td></td></tr>
</table>

Question			Expected Answer	Mark	Rationale/Additional Guidance
	(b)		Three from: • capitalise (the first letter) • embolden • change font type • change font size • centre align • underline • colour • drop caps	**[3]**	Accept any valid example that would enhance the appearance of the title. Do not accept 'Use *Wordart*'
	(c)		Possible responses are: ***Tool:*** ***Used on shape:*** flip (horizontally) 3 flip (vertically) 2 layer 2,3,4 Resize/enlarge/stretch 1,2,3,4 rotate 2	**[6]**	**Do not accept copy and paste** as this is given in the question. Tools must be different. Shapes can be used more than once. Accept correct identification of tool. Marks for 'shape' are dependent on being awarded mark for 'tool'.

<table>
<tr><th colspan="3">Question</th><th>Expected Answer</th><th>Mark</th><th>Rationale/Additional Guidance</th></tr>
<tr><td>5</td><td></td><td></td><td>
<table>
<tr><th>Statement</th><th>True (✓)</th><th>False (✓)</th></tr>
<tr><td>Hackers cannot delete encrypted files</td><td></td><td>✓</td></tr>
<tr><td>Using the same password for everything</td><td></td><td>✓</td></tr>
<tr><td>You must write down your password in case you forget it</td><td></td><td>✓</td></tr>
<tr><td>Your password must be changed regularly</td><td>✓</td><td></td></tr>
<tr><td>Your user ID must always contain your name</td><td></td><td>✓</td></tr>
</table>
</td><td>[5]</td><td></td></tr>
<tr><td>6</td><td>(a)</td><td></td><td>20</td><td>[1]</td><td></td></tr>
<tr><td></td><td>(b)</td><td>(i)</td><td>Four from:
• He will sort the records in…
• …ascending order
• …by first sorting the gender
• …and then sorting according to name</td><td>[4]</td><td>Accept descending order.

Accept ‘Choose A to Z’</td></tr>
<tr><td></td><td></td><td>(ii)</td><td>1.45m</td><td>[1]</td><td>Accept 1.45 and with/without units.
Aysha is the first F.
(If the sort is by descending order of name, the first one is Sue who is also 1.45 m so the answer is the same.)</td></tr>
</table>

Question			Expected Answer	Mark	Rationale/Additional Guidance
	(c)		A suitable query would be: "Height (m)" = 1.6 AND "Eye Colour" = Blue AND "Weight (Kg)" < 70 Award marks for: • each correct parameter • both ANDs in correct place	**[4]**	Quotes are optional. Units (m) and (kg) are optional. Misplaced units are acceptable. (e.g. Height = 1.6m is acceptable) The search parameters do not have to be in this order. Allow 1.60 for 1.6
	(d)		ID no. One from:(A key field is) • unique • all are different	**[1]** **[1]**	
	(e)	**(i)**	Two from: • copied/transcribed • without errors/matches original source document	**[2]**	
		(ii)	One from: • visual check • read data in database • compare data in database with original document • double entry.	**[1]**	Not: proof read/spellcheck
		(iii)	One from: • ensure that the data is reasonable/sensible • ensure that the data complies with set rules	**[1]**	

Question			Expected Answer	Mark	Rationale/Additional Guidance

		(iv)	**One** appropriate check from:
			• Range check
			  ○ ensure date is within predetermined limits
			• Invalid character check/ type check
			  ○ ensure that data is only numeric
			1 mark for type of check, 1 mark for the appropriate description/explanation
				[2]	Do not allow presence check.

7	**(a)**		One from: Suitable examples include: • bank branch • car repair facility • finance office One from: • prints multi-part stationery • very fast printing • uses continuous paper • copes with dirty environment • cheap running costs	**[2]**	**Accept any valid example where a dot matrix printer would be used e.g. where multi-part stationery is used e.g. a closed payslip.**
	(b)		Two from: • can be cheap to buy • produce good photo quality prints • use photo quality paper • suitable for small quantity printing	**[2]**	Not just: 'To print photos'
	(c)		One from: • fast printing • high quality • cheap to run for large quantities	**[1]**	

Question			Expected Answer	Mark	Rationale/Additional Guidance
8			Four from: • use of/import into spreadsheet/database o create graph o add title/legends/axes names o perform calculations e.g. average/sum etc • sort the data o into order of city o into order of population	[4]	Do not allow references to display features e.g. fonts text size and animations.
9			Advantages: Two from: • less dangerous than the real situation • can pre-set conditions • can re-run situations • can run demonstrations • less expensive than the real plane • not limited to specific location/time Disadvantages: Two from: • not the real thing/un-realistic experience • expensive equipment/software required • does not cater for all eventualities	[4]	
			Total	**[60]**	

OCR (Oxford Cambridge and RSA Examinations)
1 Hills Road
Cambridge
CB1 2EU

OCR Customer Contact Centre

14 – 19 Qualifications (General)
Telephone: 01223 553998
Facsimile: 01223 552627
Email: general.qualifications@ocr.org.uk

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