

Mark Scheme November 2008

IGCSE ICT

IGCSE ICT (4385/1F)

4385 1F Markscheme

Question Number	Answer	Mark
1(a)	C A / C B / C A / C	(4)

Question Number	Answer	Mark
1(b)	a picture which does something / example when selected / clicked	(3)
		Total 7 marks

Question Number	Answer	Mark
2(a)(i)	Correct example of a record e.g.	(1)

Question Number	Answer	Mark
2(a)(ii)	Correct example of a field e.g.	(1)

Question Number	Answer	Mark
2(a)(iii)	Registration / example of registration	(1)
		Total 3 marks

Question Number	Answer	Mark
2(b)(i)	Answers may include. Addition. buying a new car	(1)

Question Number	Answer	Mark
2(b)(ii)	Answers may include. Deletion selling a car	(1)

Question Number	Answer	Mark
2(b)(iii)	Answers may include. amendment changing the mileage	(1)

Question Number	Answer	Mark								
2(c)	<p>The marks are for a correct description or example of an appropriate validation check.</p> <p>3 x 2 marks. 1 mark for the check, 1 mark for a matching description / example.</p> <p>Note each check can only be credited once.</p> <table> <thead> <tr> <th>Column</th> <th>Possible checks</th> </tr> </thead> <tbody> <tr> <td>Registration</td> <td>presence, length, format, range / example</td> </tr> <tr> <td>Colour</td> <td>presence, length, format / example</td> </tr> <tr> <td>Doors</td> <td>presence, length, range / example</td> </tr> </tbody> </table>	Column	Possible checks	Registration	presence, length, format, range / example	Colour	presence, length, format / example	Doors	presence, length, range / example	(6)
Column	Possible checks									
Registration	presence, length, format, range / example									
Colour	presence, length, format / example									
Doors	presence, length, range / example									
		Total 12 marks								

Question Number	Answer	Mark
3(a)	<ul style="list-style-type: none"> • C • B • A • D 	(4)

Question Number	Answer	Mark
3(b)	<p>Answers may include:</p> <p>Web site out of date / web site written previously / at earlier date e.g. restaurant prices may have changed / anything sensible</p> <p>Information is incorrect / writer may have made mistake e.g. error in train timetable / anything sensible</p> <p>Information is personal opinion / writer has different likes / dislikes than Mr. Brown e.g. writer may have disliked the food in a restaurant / anything sensible</p> <p>Information is incomplete. e.g. writer may not have visited a particular attraction / anything sensible</p> <p>Information is biased / deliberately inaccurate / misleading e.g. written as advert / by owner of venue.</p> <p style="text-align: right;">2 x 2 marks</p>	(4)
		Total 8 marks

Question Number	Answer	Mark
4(a)	Reasons may include: Extension of current system / no new technology needed. More secure than radio. Cheaper than fibre optic.	(2)

Question Number	Answer	Mark
4(b)	Reasons may include: Fibre optic cable. Faster speed / higher bandwidth than copper cable. Can connect over longer distance than copper cable. 1 mark Radio. No cable laying between buildings. More flexible than copper cable. Faster to set up than copper cable. 1 mark	(2)

Question Number	Answer	Mark
4(c)	router / hub / switch / gateway to allow multiple computers to use a single cable at the same time. Or words to that effect. 2 marks	(2)
		Total 6 marks

Question Number	Answer	Mark
5(a)	<p>Typical any reasonable date</p> <p>Extreme Today's date / any correct date which includes 1 / 31 day 1 / 12 month</p> <p>Invalid future date / any date with 0 / 32+ day 0 / 13 + month anything not a date</p>	(3)

Question Number	Answer	Mark
5(b)	<p>Answers may include:</p> <p>Spell check, to ensure no spelling mistakes.</p> <p>Content check / proof read, to ensure content makes sense / is what is needed.</p> <p>Colours / screen resolution / display check, to see that script displays correctly on different settings / on different computers.</p> <p>Run test, to check that script runs when clicked / invoked, goes to next screen on data entry.</p> <p>Any other sensible run-time testing, with a reason.</p> <p>Browser check, to see if script displays correctly in different web browsers.</p> <p>Any other sensible test, with a reason.</p> <p style="text-align: right;">2 x 2 marks</p>	(4)
		Total 7 marks

Question Number	Answer	Mark
6(a)	<p style="text-align: center;"> L L OR RR FFFFF FFFFF C C </p> <p style="text-align: center;">3 marks OR anything else that works 3 marks</p>	(3)

Question Number	Answer	Mark
6(b)	<p>Look for:</p> <ul style="list-style-type: none"> • Initial turn L / R • move down / up F • turn on new row R / L • forward towards icon 1 FFFFFFFF (8 Fs) • turn L / R • move up / down F • Double click C 	(7)
		Total 10 marks

Question Number	Answer	Mark
7(a)	Trackball, touch pad, touch screen, joystick, any other suitable device.	(2)

Question Number	Answer	Mark
7(b)	<p>Answers may include:</p> <p>Caps Lock, allows letters to give upper / lower case. e.g. k and K</p> <p>Num Lock, allows number pad to give numbers / move the cursor. e.g. 8 moves cursor up</p> <p>Ctrl, allows letter keys to perform Functions / non-character actions, e.g. Ctrl + C = copy</p> <p>Alt, allows letter keys to activate menus, e.g. Alt + H = help</p> <p style="text-align: center;">2 x 3 marks</p>	(6)
		Total 8 marks

Question Number	Answer	Mark
8(a)	<p>Look for:</p> <ul style="list-style-type: none"> • Title / identification of the form • Staff information Name • Subject information Title + code / level • Pupil information. List • Date / return by date • Signature • Looks like a form (areas for writing, no drop down lists, no radio buttons, etc.) <p style="text-align: right;">max 6 marks</p>	(6)

Question Number	Answer	Mark
8(b)	<p>There are no marks for choosing a data item.</p> <p>For the code description, look for:</p> <p>Description and example match the data item chosen Code is fixed length Explanation is understandable / sensible.</p> <p>e.g. Staff Name. 2 letters for first name and surname, / Mr. John Smith = JS Subject Name 4 letter abbreviation, / Geography = geog</p>	(3)
		Total 9 marks

Question Number	Answer	Mark
9(a)	<p>Filter software / content restriction on browser, Mrs. Smith sets allowed / disallowed sites.</p> <p>Physical method e.g. child's computer in living room. Parents can see.</p> <p style="text-align: center;">2 marks</p>	(2)

Question Number	Answer	Mark
9(b)	<p>Encryption of the file, brother would need key to read it.</p> <p>Password on BIOS / startup, brother would need password to start computer.</p> <p>Access rights / shares on drives / folders / files, brother cannot access over the network.</p> <p>Hide file / bury file in an unlikely place e.g. in system directory, harder for brother to find</p> <p>Disguise file / name file as something misleading e.g. videosys.dll, harder for brother to find</p> <p style="text-align: center;">2 x 2 marks</p>	(4)

Question Number	Answer	Mark
9(c)	<p>Reason.</p> <p>WiFi point being used by someone outside of the house.</p> <p style="text-align: center;">1 mark</p> <p>Prevention. Enable a security feature</p> <p>Description of security feature.</p> <p>e.g. protect with a password, only computers with password can use WAP.</p> <p>enable IP / MAC / computer name list, only listed computers can use WAP.</p> <p style="text-align: center;">2 marks</p>	(3)
		Total 9 marks

Question Number	Answer	Mark
10(a)	<p>Answers may include:</p> <p>IR / light beam broken by visitor, photocell / light / IR receptor detects change /sends signal.</p> <p>Mechanical switch / micro-switch, moved / switched by movement of turnstile</p> <p>Pressure sensor in floor, triggered by visitor's weight.</p> <p>Any other sensible arrangement.</p> <p style="text-align: center;">2 marks</p>	(2)

Question Number	Answer	Mark
10(b)(i)&(ii)	<p>(i) One is added to the visitor number / one is subtracted from empty spaces</p> <p>(ii) One is subtracted from the visitor number / one is added to empty spaces</p> <p style="text-align: center;">2 marks</p>	(2)

Question Number	Answer	Mark
10(c)	<p>Subtract number out from number in</p> <p style="text-align: center;">2 marks</p>	(2)

Question Number	Answer	Mark
10(d)(i)	<p>Time</p> <p>Visitor number / empty spaces / Visitors per time period.</p> <p style="text-align: center;">2 marks</p>	(2)

Question Number	Answer	Mark
10(d)(ii)	<p>Database, easy to search / other sensible reason.</p> <p>OR Spreadsheet, easy to make graphs / other sensible reason.</p> <p style="text-align: center;">2 marks</p>	(2)
		Total 10 marks

Question Number	Answer	Mark
11(a)	<p>Look for the following points:</p> <ul style="list-style-type: none"> • no need to learn HTML • package is WYSIWYG / no need to swap (from HTML view to browser) views • complex layouts are simple to set up • packages contain pre-made templates / examples to follow • packages have pre-made artwork / animations / effects. <p>Ignore references to features which would be inappropriate for an IGCSE ICT project,</p> <p style="text-align: right;">Max 3 marks</p>	(3)

Question Number	Answer	Mark
11(b)	<p>Look for the following points:</p> <ul style="list-style-type: none"> • Open picture in a graphics package • re-size to thumbnail / smaller / correct size • re-insert / re-save picture <p style="text-align: right;">3 marks</p>	(3)
		Total 6 marks

Question Number	Answer	Mark
12(a)(i)	A single binary digit (either a 1 or a 0) 2 marks	(2)

Question Number	Answer	Mark
12(a)(ii)	8 bits 1 mark	(1)

Question Number	Answer	Mark
12(a)(iii)	1024 bytes 1 mark	(1)

Question Number	Answer	Mark
12(b)	Answers may include: video, pictures, control signals. 2 marks	(2)

Question Number	Answer	Mark
12(c)(i)	16 bits / 2 bytes (1)	(1)

Question Number	Answer	Mark
12(c)(ii)	Can use more that 255 characters / more than ASCII / 65025 characters / multiple alphabets, etc. (1)	(1)

		Total 8 marks
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TOTAL FOR PAPER: 100 MARKS