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Mark Scheme (Results)

Summer 2015

International GCSE ICT (4IT0/02)
Paper 2: Practical Paper

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Task	ANSWER	Marks	AO	Grade

Activity 1: Using Art/Imaging and Graphics Software (AG)

AG1

Example logos

(a)		1	Letters DHG and 2000 included in logo	**1**		
		2	One appropriate image chosen from IMAGES folder – not a photograph or hobby horse	**1**		
		3	Graphic must be fit for purpose as a logo - image and text combined effectively (balance of sizes and colour, no distortion), image used must not be a photograph	**1**		
(b)		1 2	Award one mark each up to a maximum of two for: • Simple image • Image can be resized without distortion • Vector graphic rather than bitmap • Explanation involving image subject being relevant to hotels	**2**		
			Total for Task AG1	**5**		

Task	ANSWER	Marks	AO	Grade

AG2

(a)	(i)	1	Some cropping attempted - image remains rectangular	**1**		
		2	Some cropping on both left and right as close to temple as possible. Accept cropping which keeps full temple on left with some trees or with some cropping of temple without tree	**1**		
	(ii)	1	Tourist standing in entrance no longer visible. Accept any form of smudging/deletion as long as tourist is not clear	**1**		
		2	Action to delete tourist results in a good clear image with no residual traces of the tourist	**1**		
(b)		1 2	Award up to two marks for an explanation involving any of: • Smaller image means a smaller file size • Faster upload / download speed on web page • Remove unnecessary parts of image/to delete distractions on the image	**2**		
			Total for Task AG1	**6**		

Total for Activity 1: 11 marks

Task	ANSWER	Marks	AO	Grade

Activity 2: Using Spreadsheet Software (SS)

SS1

	A	B	C	D	E	F	G	H	I	J	K
1	DUCANSVILLA HOTEL GROUP - TRIP TO HONG KONG										
2											
3	Cost	£600									
4											
5	FIRSTNAME	LASTNAME	AGE	JAN	FEB	MAR	APR	MAY			
6	Karen	Anderssen	29	£150	£75	£75	£150	£100			
7	Valerie	Anderssen	26	£100	£125	£100	£75	£100			
8	Mackenzie	Andrewson	24	£125	£100	£75	£75	£100			
9	Hayley	Annandale	28	£0	£0	£150	£150	£100			
10	Paula	Aynsley	43	£75	£100	£150	£125	£100			
11	Bartholomew	Brown	30	£150	£75	£125	£125	£100			
12	Rosemarie	Dann	21	£150	£100	£125	£125	£75			
13	Sebastianne	Glass	48	£125	£100	£100	£75	£100			
14	Jake	Hammersley	45	£100	£75	£75	£100	£150			
15	Christopher	Hammersmith	28	£75	£75	£125	£100	£75			
16	Jacqueline	Harrington	42	£125	£150	£100	£100	£125			
17	Mohammed	Horton	42	£100	£150	£75	£75	£125			
18	Annabelle	Sword	38	£150	£75	£150	£150	£75			
19	Vince	Williams	43	£100	£75	£100	£100	£75			

(a)		1 2	Hayley, Annandale, 28, 0, 0, 150, 150, 100 entered into spreadsheet. Accept blank cells for 0. Award 2 marks for all cells correct. Award 1 mark for 6 cells correct. Accept if data integrity lost during sort.	**2**		
(b)		1	**LASTNAME** column sorted in ascending order	**1**		
		2	**FIRSTNAME** column sorted in ascending order within sorted **LASTNAME** column (Karen Anderssen before Valerie Anderssen)	**1**		
		3	Whole table sorted in order of **LASTNAME** or **FIRSTNAME**	**1**		
(c)		1	Cells D6:H19 formatted to show currency symbol and zero decimal places. Do not award if column C formatted to show currency	**1**		
		2	Truncation removed in data view of spreadsheet	**1**		
				Total for Task SS1 **7**		

Task	ANSWER	Marks	AO	Grade

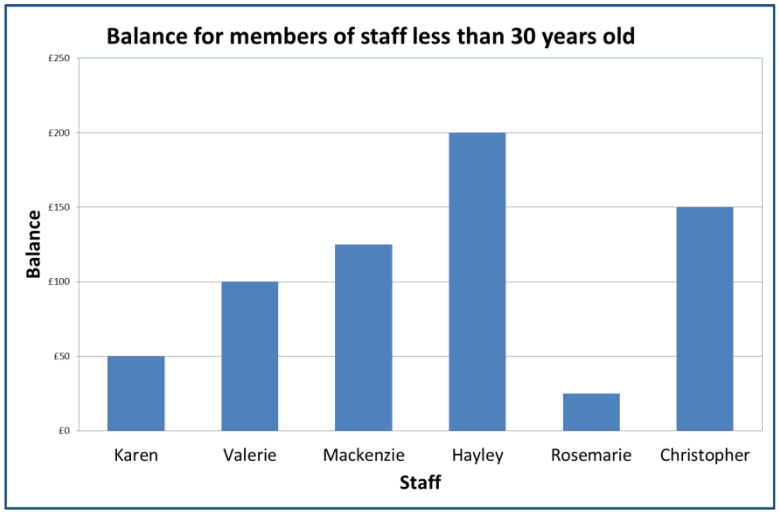
SS2

	H	I	J	K
4				
5	MAY	TOTAL	BALANCE	
6	100	=SUM(D6:H6)	=$B$3-I6	=IF(J6>=100,"Reminder","Not needed")
7	100	=SUM(D7:H7)	=$B$3-I7	=IF(J7>=100,"Reminder","Not needed")
8	100	=SUM(D8:H8)	=$B$3-I8	=IF(J8>=100,"Reminder","Not needed")
9	100	=SUM(D9:H9)	=$B$3-I9	=IF(J9>=100,"Reminder","Not needed")
10	100	=SUM(D10:H10)	=$B$3-I10	=IF(J10>=100,"Reminder","Not needed")
11	100	=SUM(D11:H11)	=$B$3-I11	=IF(J11>=100,"Reminder","Not needed")
12	75	=SUM(D12:H12)	=$B$3-I12	=IF(J12>=100,"Reminder","Not needed")
13	100	=SUM(D13:H13)	=$B$3-I13	=IF(J13>=100,"Reminder","Not needed")
14	150	=SUM(D14:H14)	=$B$3-I14	=IF(J14>=100,"Reminder","Not needed")
15	75	=SUM(D15:H15)	=$B$3-I15	=IF(J15>=100,"Reminder","Not needed")
16	125	=SUM(D16:H16)	=$B$3-I16	=IF(J16>=100,"Reminder","Not needed")
17	125	=SUM(D17:H17)	=$B$3-I17	=IF(J17>=100,"Reminder","Not needed")
18	75	=SUM(D18:H18)	=$B$3-I18	=IF(J18>=100,"Reminder","Not needed")
19	75	=SUM(D19:H19)	=$B$3-I19	=IF(J19>=100,"Reminder","Not needed")

(a)	(i)	1 2	Award 2 marks for correct efficient formula using cell references for **first** employee. =SUM(D6:H6) Award 1 mark for correct but inefficient formula using cell references for **first** employee eg =D6+E6+F6+G6+H6	**2**	E/ D	
	(ii)	1 2	Award 2 marks for: correct efficient formula (in J6) using absolute cell references =$B$3-I6 or =B$3-I6 Award 1 mark for: correct but inefficient formula using relative cell references =B3-I6 Or use of SUM with absolute cell references =SUM($B$3-I6) or =SUM(B$3- I6)	**2**	G/ B	
	(iii)	1	Formulae in I6 and J6 replicated for other employees – column J must have absolute cell reference for B3	**1**	B	
	(iv)	1	Suitable column headings entered in cells I5 and J5 eg "Total" and "Balance" Allow follow through if different columns used	**1**	G	
(b)		1 2	Award 2 marks for correct formula for any member of staff Eg: =IF(J6>=100,"Reminder","Not needed") or =IF(J6<100,"Not needed", "Reminder") Award 1 mark for = IF(J6>100,"Reminder","Not needed") or =IF(J6<=100,"Not needed", "Reminder")	**2**		
		3	**IF** function replicated for all staff - no truncation	**1**		
				Total for Task SS2 **9**		

Task	ANSWER	Marks	AO	Grade

SS3



		1	Bar or column chart includes balance column (J)	**1**		
		2	Chart displays balances (column J) of the 6 employees under 30 only (5 if Hayley not added in Task SS1)	**1**		
		3	Suitable title – must include concepts of "balance" and "under 30"	**1**		
		4	Staff first name category labels on axis not truncated	**1**		
		5	Suitable axis labels eg 'staff' and 'balance'	**1**		
		6	Graph is fit for purpose. Must have all of above **and** • fill one sheet of A4, landscape • have correctly spelled title and labels • have no data values on bars • have no legend • include no unnecessary data	**1**		
			Total for Task SS3	**6**		

SS4

(a)		1 2	Explanation includes any two of: • text is correctly spelled / capitalisation • title and / or labels clarify purpose of chart • all components of a suitable chart are present – title, axis labels and category labels • no unnecessary data present • no truncation / all text readable • suitable scales	**2**		
(b)		1	Explanation includes concept of constant value / cell reference	**1**		
		2	Explanation includes concept of efficiency of replication	**1**		
			Total for Task SS4	**4**		

Total for Activity 2: 26 marks

Task	ANSWER	Marks	AO	Grade

Activity 3: Using Web Authoring Software (WA)

WA1

(a)		1	Logo present on all webpages	**1**		
		2	Company name on at least one web page Allow DHG(2000) or Ducansvilla (Hotel group) ignore spelling	**1**		
		3	Indication of links to home page and the other tourist pages on at least one web page	**1**		
		4	Suitable page titles on all pages May or may not include sub-title	**1**		
		5	All appropriate text information on all pages May or may not include sub-title / title	**1**		
		6	Appropriate images on London and Hong Kong webpages	**1**		
		7	Cropped image of Shore Temple on Chennai webpage	**1**		
		8	Three pages produced with all appropriate content Ignore layout	**1**		
(b)		1	All pages have layout of items consistent with design	**1**		
		2	Appropriate and consistent font styles and sizes used on all pages (min two pages)	**1**		
		3	Appropriate and consistent image sizes on London and Hong Kong pages with no distortion or truncation.	**1**		
		4	All pages have dark (blue) text on pale (yellow) background	**1**		
		5	All text correct spelling and grammar	**1**		
			Total for Task WA1	**13**		

WA2

(a)	(i)	1	Formatting feature identified and where it was used. e.g. increased font size or emphasised text (bold) for headings	**1**		
	(ii)	1	Explanation of how formatting enhances the pages	**1**		
(b)		1	A link to a web page is identified	**1**		
		2	Either only HONGKONG link present or HONGKONG link highlighted in submitted code minimum <a href=”hongkong.htm”>	**1**		
			Total for Task WA2	**4**		

Task	ANSWER	Marks	AO	Grade

Total for Activity 3: 17 marks

Task	ANSWER	Marks	AO	Grade

Activity 4: Using Database Software (DB)

DB1

GUEST							
ID	GENDER	TITLE	FSTNAME	LSTNAME	EMAIL	MOBILE	BIRTHDAY
4418AA	Male	Mr	AMIKO	ADEYEMO	amiko.adeyemo@nomail.xl.cx	07700 900665	31/12/1965
8343NA	Male	Mr	NOMIN-ERDENE	ARMSTRONG	nomin68@yopmail.com	07700 900474	04/10/1968
9544JB	Female	Ms	JENNY	BATSAIKHAN	batsaikhanj@mega.zik.dj	07700 900117	09/02/1972
3328AC	Female	Ms	ABBIE	BENNETT	abbiebenn@mega.zik.dj	07700 900434	01/12/1970
9031AB	Male	Mr	ANDREW	BENNETT	werdna@nospam.ze.tc	07700 900411	07/03/1971
6915MC	Female	Ms	MAY	CUTAMORA	cutamoramay@speed.1s.fr	07700 900770	12/06/1966
6907AG	Male	Mr	AHMAD	GHAURI	ahmad74@cool.fr.nf	07700 900473	19/02/1974
3817AG	Female	Ms	ALI	GRAY	aligray72@yopmail.fr	07700 900922	29/06/1972
8674RJ	Male	Dr	ROBERT	JAREMKO	bobbiej67@yopmail.com	07700 900153	21/06/1967
8597JK	Male	Mr	JAMES	KARACUNS	karacuns88@yopmail.fr	07700 900170	19/10/1960
9351AK	Female	Dr	ALIESH	KHAN	khan.aliesh@jetable.fr.nf	07700 900393	16/01/1968
5140NK	Female	Dr	NATALIE	KRUPNYK	krupnyk.nat@jetable.fr.nf	07700 900950	31/03/1958
2841AM	Female	Ms	AMY	MICHEV	moss72@yopmail.fr	07700 900758	01/01/1955
5083SM	Male	Dr	SHAHINOOR	MICHEV	shahinoor.michev@nomail.xl.cx	07700 900928	19/03/1969
6238HP	Male	Mr	HUMZA	PARKER	humza.parker@cool.fr.nf	07700 900928	11/10/1971
6640MR	Male	Mr	MAKSIMS	RAHMAN	maksimsr@speed.1s.fr	07700 900366	23/05/1969
GS5412	Male	Dr	GAGANJEET	SINGH	drgs@singh67.biz	07700 900900	11/03/1967
4312VW	Male	Mr	VALENTIN	WELLS	wells.valentin58@jetable.fr.nf	07700 900744	11/12/1958
9941BY	Male	Mr	BRANDON	YASIN	yasinb@yopmail.com	07700 900055	01/06/1954
4813IY	Female	Ms	IRYNA	YILMAZ	anyri@courriel.fr.nf	07700 900738	24/08/1975
2737OY	Female	Dr	OLAYELE	YOUNG	olayele16@speed.1s.fr	07700 900133	08/04/1969

(a)	(i)	1 2 3	GS5412 (or 5412GS), Male, Dr, GAGANJEET, SINGH, drgs@singh67.biz, 07700 900900, 11/03/1967 entered into GUEST table **Award 3 marks for**: Correct data entry with no spelling errors and with format consistent with rest of table (FSTNAME and LSTNAME in upper case, email address in lower case and space between code and number in MOBILE, date in same format as other dates). **Award 2 marks for:** Correct data entry with one spelling error and with format consistent with rest of data **OR** Correct data entry with no spelling errors and with format inconsistent in one field **Award 1 mark for:** Correct data entry with two spelling errors and with format consistent with rest of data **OR** Correct data entry with no spelling errors and with format inconsistent in two fields **OR** Correct data entry with one spelling error and with format inconsistent in one field	**3**		
	(ii)	1	Table sorted in ascending order of LSTNAME	**1**		
		2	Table sorted in ascending order of FSTNAME within ascending order of LSTNAME Check **BENNETT** (Abbie and Andrew) and **MICHEV** (Amy and Shaninoor)	**1**		
(b)	(i)	1	Any one of : • Age changes each year but birthday is constant • Enable customer service department to celebrate birthdays with special offers • Additional Identification	**1**		

Task			ANSWER	Marks	AO	Grade
	(ii)	1	Any one of: • Because it contains a space (non-numeric character) • Because it starts with a zero • Because it is not used for calculations	**1**		
			Total for Task DB1	**7**		

Task	ANSWER	Marks	AO	Grade

DB2

Task DB2a				
TITLE	FSTNAME	LSTNAME	MOBILE	EMAIL
Dr	OLAYELE	YOUNG	07700 900133	olayele16@speed.1s.fr
Dr	SHAHINOOR	MICHEV	07700 900928	shahinoor.michev@nomail.xl.cx
Dr	NATALIE	KRUPNYK	07700 900950	krupnyk.nat@jetable.fr.nf
Dr	ROBERT	JAREMKO	07700 900153	bobbiej67@yopmail.com
Dr	ALIESH	KHAN	07700 900393	khan.aliesh@jetable.fr.nf
Dr	GAGANJEET	SINGH	07700 900900	drgs@singh67.biz

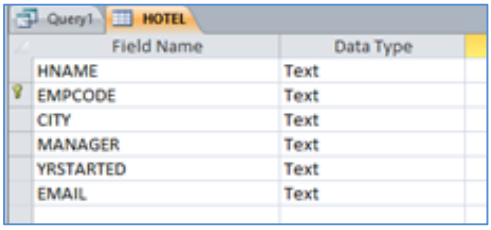
Task DB2b			
FSTNAME	LSTNAME	MOBILE	BIRTHDAY
AMY	MICHEV	07700 900758	01/01/1955
VALENTIN	WELLS	07700 900744	11/12/1958
AMIKO	ADEYEMO	07700 900665	31/12/1965
NATALIE	KRUPNYK	07700 900950	31/03/1958
JAMES	KARACUNS	07700 900170	19/10/1960

(a)		1	List shows only correct 6 records. (Jaremko, Khan, Krupnyk, Michev S, Singh & Young) Allow follow through if Singh is not included	**1**		
		2	List shows only **TITLE**, **FSTNAME**, **LSTNAME**, **MOBILE** and **EMAIL**	**1**		
		3	List shows fields in correct order	**1**		
(b)		1 2	**Award 2 marks for**: Correct 5 records with birthdays between 1/1/1955 and 31/12/1965 inclusive Adeyemo, Karacuns, Krupnyk, Michev A & Wells **Award 1 mark for:** Correct 3 or 4 records with one or both Adeyemo and Michev A missing	**2**		
		3	**FSTNAME**, **LSTNAME**, **MOBILE** and **BIRTHDAY** fields only (any order)	**1**		
				Total for Task DB2 **6**		

Task	ANSWER	Marks	AO	Grade

DB3

Field Name	Description	Data Type	Field size / Length
HNAME	Hotel name	Text	=>19 and <=50
EMPCODE	Employee code	Text	4
CITY	Location of hotel	Text	>=9 and <=50
MANAGER	Manager's name	Text	>= 11 and <=50
YRSTARTED	Year manager started	Text or Number	4 or integer
EMAIL	Manager's email address	Text	>= 25 and <=50
Key field	EMPCODE		



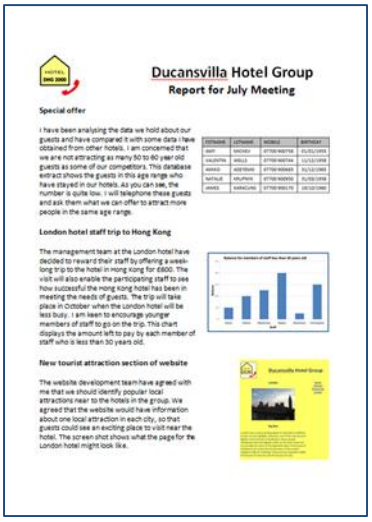
(a)		1 2	Award 2 marks for data type Text for <u>all</u> fields. Allow **YRSTARTED** as number or text (not Date) Award 1 mark for correct data type for five fields	**2**		
		3 4	Field sizes – values should be within the ranges shown. HNAME =>19 and <=50 EMPCODE =4 CITY >=9 and <=50 MANAGER >= 11 and <=50 YRSTARTED =4 or integer EMAIL >= 25 and <=50 Award 2 marks for all 6 correct Award 1 mark for 5 correct	**2**		
		5 6	Award 1 mark each up to a maximum of 2 for justification of data type for any 2 fields e.g explanation that field contains non-numeric values or not used in calculations	**2**		
		7	Key field is **EMPCODE**	**1**		
		8	Justification includes explanation that key field needs to be unique	**1**		
(b)		1	Table structure matches candidate's design	**1**		
		2	Correct spelling of all field names	**1**		
		3	**EMPCODE** set as primary key. Allow follow through from DB3a	**1**		
(c)		1	Data entry form has all 6 required fields present	**1**		
		2	Data entry form has suitable field labels and/or help features	**1**		
		3 4	Award 2 marks for: London hotel data entered correctly with no errors Award 1 mark for Data entered correctly with one error.	**2**		
			Total for Task DB3	**15**		

Total for Activity 4: 28 marks

Task	ANSWER	Marks	AO	Grade

Activity 5: Using DTP/ Word Processing Software (WP)

WP1



Ducansvilla Hotel Group
Report for July Meeting

Special offer

London hotel staff trip to Hong Kong

New tourist attraction section of website

(a)		1	Document has a suitable title must include at least two of "DHG", "Report", "July meeting"	**1**		
		2	Logo inserted in appropriate place in document. Top or bottom, left, centre or right aligned	**1**		
		3	**JULYMTG1**, **JULYMTG2** and **JULYMTG3** text included	**1**		
		4	The chart from **SS3** inserted with the paragraph from **JULYMTG2**	**1**		
		5	London web page screen shot from **WA1a** included with the paragraph from **JULYMTG3**	**1**		
		6	Results of query from **DB2b** inserted with the paragraph from **JULYMTG1**	**1**		
(b)		1	Consistent use of font(s), size and style for headings and body text	**1**		
		2	Consistent and appropriate alignment of text	**1**		
		3	Consistent and appropriate alignment of images	**1**		
		4	Screenshots suitably cropped to remove unnecessary items	**1**		
		5	Report fits to one side of A4 with balanced layout	**1**		
			Total for Task WA1	**11**		

Task	ANSWER	Marks	AO	Grade

WP2

MEMO

To: Lydia

From: Frederick

Date: 11 May 2015

Subject: July Meeting

Can I remind you that the next meeting of the hotel managers will be held in Conference Suite of the London hotel on Wednesday 15 July 2015 starting at 10:30 am?

(a)		1	To: Lydia (White, Manager London Hotel) From: Frederick (Ducansvilla, Managing Director) Accept with or without colons	**1**		
		2	Today's date (11 – 15 May) – with appropriate label	**1**		
		3	Subject contains reference to meeting **and** managers or July	**1**		
		4	Appropriate message including "Wednesday 15 July (2015)", "10:30 am" and "Conference Suite"	**1**		
(b)		1	Document is produced in memo format, do not accept letter format	**1**		
		2	All headings aligned	**1**		
		3	Spelling and grammar of message is correct and content is appropriate for a memo	**1**		
			Total for Task WA2	**7**		

Total for Activity 5: 18 marks