

**CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**GCE Advanced Level**

## **MARK SCHEME for the May/June 2014 series**

# **9713 APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY**

**9713/04**

Paper 4 (Practical Test B), maximum raw mark 90

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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			<b>Mark</b>
<b>1</b>	Accuracy of formatting and data	Printout including. Score & Result columns (single page, appropriate size)	<b>1</b>
		Correct original data shown – all visible not wrapped & data aligned to label	<b>1</b>
		Correct scores – <i>1st student</i>	<b>1</b>
		Correct scores – <i>other students</i>	<b>1</b>
		Correct results – <i>1st student</i>	<b>1</b>
		Correct results – <i>other students</i>	<b>1</b>
	Display of scores from external source	Correct <b>LOOKUP</b> function with single cell lookup_value	<b>1</b>
		Correct table_array	<b>1</b>
		Correct col_index_num	<b>1</b>
		Correct [range_lookup] value	<b>1</b>
		Evidence of correct replication	<b>1</b>
	Reference to table of thresholds	Valid function to reference threshold table used	<b>1</b>
		Correct/efficient reference to threshold table values	<b>1</b>
		Correct logic/criteria/reference parameters	<b>1</b>
		Text "Distinction" or cell correct reference	<b>1</b>
		Text "Credit" or cell correct reference	<b>1</b>
		Text "Pass" or cell correct reference	<b>1</b>
		Correct text "Resit" or cell correct reference	<b>1</b>
		Text "Repeat" or cell correct reference	<b>1</b>
		Evidence of correct replication	<b>1</b>
		<b>[20]</b>	

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<b>2</b>	Contextual Information	Title – refers to <b>Number of correct answers per question</b>	<b>1</b>
		Cat axis – <b>All</b> values and title (Question Numbers)	<b>1</b>
		Val axis – Values & title (Number of correct answers)	<b>1</b>
		Sufficient explanatory text (Correct answers per question & <i>Marks per question if shown</i> )	<b>1</b>
	Series data	Correct values	<b>1</b>
		Correct marks per question shown (Module JS1 data used)	<b>1</b>
	Formatting	Marks per question shown in data area <i>but not as column</i>	<b>1</b>
		Data clearly aligned to question number	<b>1</b>
	Evidence requirements	Single printout <i>as specified in the question paper</i>	<b>1</b>
		3 candidate components in footer	<b>1</b>
			<b>[10]</b>
	<b>3 (a)</b>	Insertion of fields	Date (as field) & aligned left
Format (MMMM-DD-YYYY)			<b>1</b>
<<Tutor_Name>> mergefield inserted			<b>1</b>
Alignment & new line & <placeholders> removed			<b>1</b>
<<Role>> mergefield inserted			<b>1</b>
Alignment & spacing with Tutor & <placeholders> removed			<b>1</b>
<<Course_Code>> mergefield inserted			<b>1</b>
Spacing & <placeholders> removed			<b>1</b>
Linked data		Link to correct table – JS1_Results file	<b>1</b>
Use of conditional field to control content		If MERGEFIELD Role = or <> "Lead" or "Assistant" logic correct	<b>1</b>
		Conditional link to chart	<b>1</b>
		Text "An analysis...Lead tutor" ( <i>if conditional in merge doc</i> )	<b>1</b>
Selection of recipients		Valid automated selection (SKIPIF or correct filtering)	<b>1</b>

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	Printout of merged letters	Letter to Bentte seen (Shown as Lead Tutor)	1
		Letter to Bentte includes chart but not conditional text	1
		Letter to Errat seen (Shown as Assistant Tutor)	1
		Letter to House seen (Shown as Assistant Tutor)	1
		Letters to these 3 only	1
		Accurate conditional text and no chart on letters to Assistant Tutors	1
		Correct table shown on all letters	1
			[20]
4	Layout and formatting table as specified	Printout setup as QP – single page – suitable size	1
		"VB1" & "Student Codes" text accurate and in correct positions	1
		Correct Student Codes <i>shown</i>	1
		"No. of Correct Answers" text shown – wrapped & centred in T1/2 merged cell	1
		"Totals" text shown in correct cell	1
		Correct question number text shown in correct cells	1
		Correct cells emboldened as specified	1
		Table formatting and layout as specified	1
	Accuracy of data	Correct Scores	1
		Correct totals	1
		Correct No. Answers	1
		[11]	
Reference correct scores	Valid function ( <i>IF()</i> ) used efficiently	1	
	Correct logical test, ( <i>Bx = Module_VB1!Bx</i> )	1	
	Correct value if True ( <i>Module_VB1!Cx</i> )	1	
	Correct value if False ( <i>0</i> )	1	

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	Replication of formulae	Valid replication of logical test across columns	<b>1</b>	
		Valid replication of values if True across columns	<b>1</b>	
		Valid replication of formulae down rows	<b>1</b>	
	Student scores (column totals)	Valid totals formula ( <i>SUM ()</i> , <i>SUBTOTAL(9,..)</i> ) used	<b>1</b>	
		Correct Range ( <i>Rows 3:22</i> ) seen	<b>1</b>	
		Correctly replicated formula	<b>1</b>	
	Number of correct answers for each question	Valid formula for number of correct answers used – ( <i>COUNTIF()</i> )	<b>1</b>	
		Correct Range ( <i>Bx:Rx</i> ) seen	<b>1</b>	
		Correct criteria used (" <i>&gt;0</i> " <b>or</b> " <i>&gt;=1</i> ")	<b>1</b>	
		Correctly replicated formula	<b>1</b>	
			<b>[14]</b>	
	<b>5</b>	Automated printouts	Correct printout 1 -whole table of JS1 module results	<b>1</b>
			Table sorted by Class in ascending order	<b>1</b>
			Table sorted by Score in descending order	<b>1</b>
Correct Header & Footer shown			<b>1</b>	
Corrcet printout 2 -Distinction selection			<b>1</b>	
Correct printout 3 -Resit & Repeat selection			<b>1</b>	
Printout 3 sorted (grouped) by result			<b>1</b>	
			<b>[7]</b>	

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	Macro code	Code to insert correct Header and Footer information seen	<b>1</b>
		Code to sort by "Class" in ascending order seen	<b>1</b>
		Code to sort by "Score" in descending order seen	<b>1</b>
		Code to filter for "Distinction" seen	<b>1</b>
		Code to filter for "Repeat / Resit" seen	<b>1</b>
		Code to sort by "Result" seen	<b>1</b>
		Code to print (only) all 3 printouts seen	<b>1</b>
		Programmer's comments explaining each step seen	<b>1</b>
			<b>[8]</b>
		<b>[Total 90]</b>	