MARK SCHEME for the March 2016 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.

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Page 2	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – March 2016	9713	04

Task				Mark
1 (a)		Enter formulae for	Correct income formula inserted	1
		calculating income and profit	Correct profit formula inserted	1
(b)		Format Costs, Prices and Sales	Cost, selling price, income & profit formatted as currency (\mathbf{f})	1
		Sales	Sales formatted as integer	1
(c)			Correct values inserted for Annual costs	1
	Model costs, selling prices and profit	Model break-even selling price with advertising set at £5k	Evidence of efficient method used (e.g. Goal Seek)	1
			Correct settings and entries	1
			Correct results for selling price displayed	1
(d)		Model break-even selling	Advertising set to £8000	1
		price with advertising set at £8k	Correct results for selling price displayed	1
(e)		Model manufacturing	Correct entry for selling price	1
		costs with selling price set at £2	Correct result for manufacturing costs displayed	1
		•	·	[12]

Page 3	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – March 2016	9713	04

2			GivenName (space) Surname mergefields inserted	1
		la contra con Colde con d	Job_title mergefield inserted on a newline	1
		Insert mergefields and text as specified	Date inserted as a field and in correct format (DD:MM:YY)	1
			The Earbud Project inserted as memo subject	1
			Evidence of link to Cost per earbud value	1
		Incort anosified data	Correct range used (R10:C4)	1
		Insert specified data linked to spreadsheet	Evidence of link to annual costs data	1
	Present the		Correct named range used (Annual_Costs)	1
	results	to Use conditional field to insert specified text and	Correct conditional field inserted	1
	of financial modelling to		Correct criteria applied	1
	specified		Correct conditional text (1) inserted	1
	recipients in a mail		Correct conditional text (2) inserted	1
	merge		Evidence of link to calculations data seen	1
	memo		Correct named range used (Calculations)	1
		Non-manual selection of recipients	Evidence of efficient selection of recipients provided	1
			Memo to Ellis printed	1
			Memo to Kieran printed	1
		Letters to specified recipients merged	Memo to Samantha printed	1
			Memo to Mia printed	1
			Memo to Noah printed	1
			ALL and Only these memos printed	1
		Merged letters proofed for accuracy	Correct job titles for recipients seen	1
		accuracy	Correct inclusions for memos seen	1
				[23]

Page 4	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – March 2016	9713	04

3	(a)			Evidence of validation rule used provided	1
			Set validation rule for	Evidence of correct limiting values provided	1
			advertising cost entries	Appropriate input message seen	1
				Appropriate error message seen	1
				Correct selling price formula inserted	1
				Valid replication of selling price formula	1
		Extend the	Modify spreadsheet as	Correct sales formula with correct absolute/relative references seen	1
			nodel to etermine	Valid replication of sales formula	1
		model to determine		Correct income formula with correct absolute/relative references seen	1
		maximum possible		Valid replication of income formula	1
				Correct profit formula with correct absolute/relative references seen	1
				Valid replication of profit formula	1
				Correct manufacturing cost (£1.25) inserted	1
				Table displayed as shown in the example	1
			Display values for completed financial model	Selling prices displayed as shown in the example	1
				Correct values shown in 1st line of the table	1
				Correct values shown after replication	1
					[17]

(b)		Appropriate chart selected	Line graph chosen for both series	1
		Display profit data series	Correct profit data used	1
	Display		Selling prices used as horizontal axis	1
	the results	Display sales data series	Correct sales data used	1
	of the extended		Secondary axis displayed	1
	model in	model in a chart	Valid chart title inserted	1
	a chart		Valid horizontal axis title inserted	1
		Add contextual information to chart	Valid vertical axis title inserted	1
			Valid secondary axis title inserted	1
			Legend or equivalent displayed	1
				[10]

Page 5	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – March 2016	9713	04

4			Master slide items inserted as specified	1
		Set up presentation as specified	Full slides printed	1
		speemed	Correct titles and text inserted	1
	Display the		Table displayed on slide 2	1
			Correct advertising value shown	1
	modelling	ults in a contextual information	Correct maximum selling price seen	1
	presentation		Valid maximum selling price indicated	1
			Corresponding maximum profit indicated	1
			Appropriate text inserted in "Callouts"	1
			Chart displayed on slide 3	1
			Correct vertical line inserted	1
				[11]

5	(a)		Evidence of valid method for import provided	1	
		Create a relational database	Provide evidence of import specification and data structures	Correct data structure for Headphone Data table shown	1
		datababb		Correct data structure for HeadphonesTested table shown	1
				·	[3]

(b)			Correct report title inserted	1
	Select and	Create a report on	Required labels and data all visible and displayed on a single page	1
	display	Create a report on selected data displayed	Data grouped by "Open/Closed" field	1
	specified	and formatted as	Data grouped by "Over/On-ear" field	1
	data	specified	Correct data displayed in ascending order	1
			Candidate details displayed in page (not report) footer	1
		·		[6]

Page 6	Mark Scheme	Syllabus	Paper
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(c)	Select data to be included in a memo merged to specified recipients	Insert mergefields data and text as specified	Correct mergefields and date field inserted	1
			Correct fields and data displayed in a table	1
		Use a conditional field to insert correct text	Conditional field inserted with correct criteria	1
			Correct conditional text (1) inserted	1
			Correct conditional text (2) inserted	1
		Provide evidence of non-manual selection of recipients	Evidence of efficient selection method for Studio department	1
			Evidence of efficient selection method for Head & Technicians only	1
		Merged memos proofed for accuracy	4 memos to correct recipients printed	1
				[8]

Total marks [90]