

Cambridge International Examinations

Cambridge International Advanced Subsidiary and Advanced Level

APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

9713/04

Paper 4 Practical Test B

October/November 2016

MARK SCHEME
Maximum Mark: 90

Published

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Page 2	Mark Scheme	Syllabus	Paper
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Tas	k				Mark
		Set up database	Individual	All .csv files are imported as individual tables	1
			tables match the contents of the files	The Member table has member_number as primary key	1
		Primary keys	provided with correct primary keys	The Classes table has class_number as primary key	1
			set	The Trainer table has trainer_number as primary key	1
				Classes table: class_date = date/time	1
			Correct data	Classes table: class_cost = currency	1
	Evidence of	Data types	types for important fields	Member table: date_of_birth = date/time	1
4	correct analysis of	Relation ships		Member table: height & weight = Number	1
1a	data and setup of the			Member table: mailing list = Boolean	1
	database		One to Many relationships created (Can mark from relationship diagram if ∞ seen)	Members table to Bookings table on member_number	1
				Classes table to Bookings table on class_number	1
				Trainer table to Classes table on trainer_number	1
				A calculated field is added to member table	1
		Calculated field	BMI calculation (Must be in	The BMI is calculated correctly Weight/Height*Height	1
		neid	Members table)	The BMI is set to display as a number to 1 decimal place	1
					15

Page 3	Mark Scheme	Syllabus	Paper
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				Evidence of Query used for selection provided	1
			Database	selection of Members	1
		Fitness Prog. selection	query (Non-manual, not in document)	The required fields are present includes member_number, forename,surname, fit.prog, BMI	1
			·	The fitness_programme criteria are set to Cardio Or Weight Loss	1
			Database	Evidence of selection of trainers (as a separate query) provided	1
		Trainer	query (Non-manual, not in	the criteria for Trainer specialty includes Weight Loss	1
	Print memos to trainers of	speciality selection	document)	the criteria for trainer specialty has wildcard for *cardio*	1
1b	Cardio or Weight Loss classes	Cardio or eight Loss classes providing the BMI formation for each ember of	Document filter or use of SkipIf is acceptable	The trainer specialty excludes Dance	1
	the BMI information for each		Document creation and evidence of mergefields (A report or screenshot is not acceptable for this mark)	The document has a title of Memo	1
	member of the class			The given text is is 100% accurate and is below the title	1
				The required mergefields are in header (trainer_forename, trainer_surname)	1
		Memos		The BMI data is exported to a document as a table	1
			Printed	the required fields are present - Only (mem.num, forename,surname, fit.prog, BMI)	1
			memos	The Memos are printed for the correct 5 trainers Pasan Khan, Mena Singh, Pierre Roux, Lucy Evans and Hans Duerr ONLY the contents and layout are fit for purpose	1
					14

Page 4	Mark Scheme	Syllabus	Paper
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				Evidence of a method using the database	1
		Income per class	Database query (use of Count,	Evidence of method to count records is provided	1
		queries (Import of calculations		Evidence of method to count correct field (Member_number)	1
		carried out	Crosstab, Duplicates etc.).	Evidence of method to calculate class income	1
		in a spreadsheet	Can be marked from evidence	based on the count method used previously	1
	Use of the	is not acceptable	provided in the design view of a	An Income per class field added	1
	database to	database to method marks) ne income for each class	report	the field is shown as a calculation	1
2a	calculate the income for each class			The correct calculation is shown – (Class_Cost * Count of)	1
			Formatted database	The required fields are present class_name, Income only - the layout is fit for purpose	1
				Candidate details are inserted at the top of the report	1
		Report	report	Correct data is shown	1
				The report is printed, with all currency in € The ToneIT logo is in the correct place and is the correct size	1
					12

Page 5	Mark Scheme	Syllabus	Paper
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				Selection of trainer. Evidence that the Trainers table is used		
				The Trainer name fields are used		1
		O de estica a	Database	The Trainer name fields are conc Full name field created	catenated.	1
		Selection of trainer	parameter query to select trainer	A parameter criterion is created on forename	Both marks can be awarded if a full	1
				A parameter criterion is created on surname	name field is used	1
				Suitably specific prompt text is ir for the parameter criterion	serted	1
		Profit/Loss calculation		Evidence of Profit/Loss method		1
		(Import of calculations carried out	Can be marked	The Income per class data/meth	od is used	1
	Use of the database	in a spreadsheet is not acceptable for the e profit loss for sses of	from evidence provided in the design view of a report	A field is added to calculate profit/loss (with appropriate label)		1
2b	to print a report of the profit or loss for classes of			Profit/loss is calculated. The correct formula is used – Income-25		1
	a trainer		Formatted	A report is created with the correct fields displayed class_name, Profit/Loss only		1
				The count matches the number of shown as field	of classes	1
				The count is correct and shown in the correct position		1
		Profit /loss		The report is printed and grouped for Gurdeep Singh only		1
		report	database report	The correct four class_names ar displayed once	e present	1
				The Profit/loss values are correct	t for each class	1
				The report shows the correct 2 fields only. The layout is fit for purpose – all currency is in €		1
				The report fits on single page		1
				The logo is in the correct position size	n and is the correct	1

Page 6	Mark Scheme	Syllabus	Paper
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				A bar chart is created to display the profit/loss for each class	1
				The chart is included in the report	1
	Profit /loss Chart		Bar Chart created using the database	The correct values are shown in the chart. Can follow through for incorrect data shown in report	1
		Profit /loss Chart		The chart has a suitable title	1
				The X axis has a suitable title	1
				TheY axis has a suitable title	1
				The Y axis is set to currency € and 2 dp	1
				(All) chart titles and labels are shown. The report layout is fit for purpose	1
					27

Page 7	Mark Scheme	Syllabus	Paper
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	T				
				Evidence of Query/selection method	1
				Evidence that the Member table is used	1
			Calculation of age of members and	All & Only the required fields are used Forename, Surname, DOB, FitProg and Mailing_list	1
			selection of members	A field is added to calculate the member age	1
			aged 35 and over.	A valid method for the calculation is shown	1
		Mail merge selection	(Import of calculations	Evidence of a correct expression is provided e.g. Year(Now())-Year([date_of_birth]) DateDiff("yyyy",[Members]![date_of_birth],Now())	1
			carried out in a spreadsheet is not acceptable	The correct criterion on Member age is set 35 years and over	1
			for method marks)	The correct criterion on Mailing_list is set True/yes - SkipIf or filter is acceptable	1
	Use the			Evidence that Steffi Beckenbaur is excluded manual deselection is acceptable	1
	database as a		Evidence of mergefields inserted as specified (Screenshots of the document and the dialog box for the conditional field are acceptable for these marks)	The Date is displayed as a field	1
3	source for			The Forename mergefield is inserted	1
3	printing letters to	o rs		The Surname mergefield is inserted	1
	members aged 35 or			The Fitness program mergefield is inserted	1
	over			The Logic and syntax is correct for the conditional mergefield Fitness_programme is used as the criterion	1
				The correct conditional text for "10% discount" letter is addded	1
				The correct conditional text for "special offfers" letter is added. Both must be present for this mark	1
				The correct 3 letters are present – <i>Only</i>	1
		Mail	Merged letters	Correct letter to Maria Valesquez shows "General Fitness programme" and "10% discount" text	1
		merge letters	"proofed" and printed	Correct letters to Malcom Jones and Diego Garcia show "Toning programme" and "special offers" text	1
				All letters include the conditional text and are proofed for errors	1

Page 8	Mark Scheme	Syllabus	Paper
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		The logo is inserted in the correct place and is the correct size	1
		All candidate details are shown at the bottom of all letters	1
			22
		Total marks	90