

Mark Scheme (Results) January 2010

GCE

GCE Applied ICT (6957/01) Using Database Software

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January 2010

Publications Code UA022600

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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.

Applied GCE Unit 7 - Mark Scheme

Activity	ANSWER			POSS. MARK	MAX	
Activity 1	Understanding the problem - Functional specification Note: processes are identified in the scenario Note: paper states: processes(4), inputs(4) and outputs (4)					
	Process must lead to input and output to award marks for input / output. If process is clear but without verb can award I/O marks					
	Note: Must be in a table to award marks					
		Process	Input	Output		
	A1	<u>Check</u> correct UserID and/or Password	Login Name/password	New Contract form	1, 1, 1	
	A2	<u>Generate/create</u> new Customer Number	Max existing Customer ID	New number incremented by 1	1, 1, 1	
	A3	<u>Generate/create</u> new contract number	Existing contract ID	New Contract number incremented by 1 and prefixed EBC	1, 1, 1	
	A4	<u>Check</u> if Phone available	PhoneID, stock level	Availability/out of stock message	1, 1, 1	
	A5	<u>Reduce</u> stock levels by 1	Phone type and Stock level, reorder level	Existing stock level reduced by	1, 1, 1	
	A6	<u>Track</u> stock levels	Phone type and reorder level	Message if stock goes below reorder level	1, 1, 1	
	A7	<u>Add/Append</u> new contract	ContractID, CustomerID, Phone Type, Package type and date	Contract details in table	1, 1, 1	
	A8	<u>Generate/create</u> report on sales	Package and Contract details Time period for	Print of Sales summary	1, 1, 1	

Applied GCE Unit 7 - Mark Scheme

Activity		ANSWER			POSS. MARK	MAX
			report			
	A9	<u>Find</u> existing customer / contract details	CustomerID ContractID	Display customer or contract details	1, 1, 1	
	A10	<u>Identify</u> contracts one month from expiry	Current date Contract date Duration	Details of contracts due to expire	1, 1, 1	
	A11	<u>Add/Append</u> new customer	Name, address etc	Customer details in table	1, 1, 1	
				Max 12		
				Total marks for Activity 1		12

Activity		ANSWER	POSS. MARK	MAX
Activity 2	a	Structure		
A1		Customer	1	
A2		Contract	1	
A3		Package	1	
A4		Phone	1	
A5		1:M Customer - Contract	1	
A6		1:M Package - Contract	1	
A7		1:M Phone - Contract	1	
		Note: the names of the tables may vary slightly. Do not accept customer_exam, phone_exam		7
	b	Data Types		
		B1-B6: must have correct data type for all fields named for mark to be awarded (missing field no mark)		
		Any 5 from:		
B1		Boolean field for MP3_Player, Camera, Bluetooth	1	
B2		Currency field for MonthlyCharge and Price	1	
B3		Date/Time field for ContractDate	1	
B4		Text field for Bank Sort Code	1	
B5		Number field for Stock_level, Reorder_Level and Reorder_Quantity	1	
B6		Evidence of correct primary keys	1	
B7		No AutoNumber fields	1	
				Max 5

	C	Validation		
C1		Range check - e.g Stock level >0 preferable or will accept >0 And <=60	1	
C2		List check (Table Lookup) - Combo box must have limit to list set to Yes <ul style="list-style-type: none"> • PhoneID in Contracts Phone table OR <ul style="list-style-type: none"> • Package Type in the Contracts table OR <ul style="list-style-type: none"> • Duration in the Contracts table 	1	
C3		Presence check - Any suitable field Not Primary key	1	
C4		Any TWO Picture/format check of <ul style="list-style-type: none"> • postcode • Customer table Sort code (must be hyphenated) • Account Number (must have leading zero) 	2	
				5
	d	Imported Records		
D1		Customer (248)	1	
D2		Contract (253)	1	
D3		Phone (10)	1	
D4		Package (12) (depending on how have erroneous data has been handled)	1	
				4
		Total marks for Activity 2		21

Activity		ANSWER	POSS. MARK	MAX
Activity 3		Creating the Interface		
	a	Form(s) for new / existing customer / new contract		
		Any 18 from:		
A1		Suitable form and sub-form title(s)	1	
A2		Suitable form and sub-form title(s)	1	
A3		Suitable form and sub-form title(s) / Logo	1	
A4		Allows new customer details to be added	1	
A5		Method of finding an existing customer	1	
A6		Single existing customer record displayed	1	
A7		Allows new contract to be added	1	
A8		Existing contracts for that customer can be changed	1	
A9		Allows existing customer details to be edited	1	
		General		
A10		Suitable form background	1	
A11		Labels and text boxes suitable - sizes and layout	1	
A12		All labels worded correctly - e.g. no underscores, spacing correct, No Address1	1	
A13		Exit/Close button	1	
		Queries / macros		
A14		New CustomerID allocated (query)	1	
A15		Macro to run query to generate new CustomerID	1	
A16		New ContractID allocated (query)	1	
A17		Macro to run query to generate new ContractID	1	
		A18-A21 can be from a user or technical point of view		
A18		Annotation / explanation of adding new customer	1	
A19		Annotation / explanation of finding an existing customer	1	
A20		Annotation / explanation of adding new contract	1	
A21		Explanation of how data entry is simplified (must be awarded in this section)	1	
		Max 18		18

		Any 3 of:		
	b	Explanation of how a customer's choices are entered via the interface and are saved		
B1		Explanation of method of selecting a phone	1	
B2		Explanation of method of selecting the package	1	
B3		Explanation of how the system updates the tables from the forms	1	
B4		Explanation any appropriate macros used	1	
B5		Explanation of any command buttons used	1	
		Max 3		3
	c	How the system updates and reports low stock levels		
C1		Update query to reduce the stock level by 1 / or other method	1	
C2		Explanation of the above	1	
C3		Appropriate table and field is reduced by 1	1	
C4		Explanation of the above	1	
C5		Message to say stock on or below reorder level	1	
C6		Explanation of the message or process	1	
				6
		Total marks for Activity 3		27

Activity		ANSWER	POSS. MARK	MAX
Activity 4		Testing		
	a	Using the test data		
		Test 1 - Susan Parkinson (watch postcode format)		
A1		Testing carried out - message or similar evidence provided	1	
A2		Screen print of table showing the tested record	1	
A3		Explanation	1	
		Test 2 - Invalid Lynda Sephton (check Blackberry)		
A4		Testing carried out - evidence provided	1	
A5		Screen print of contract table showing no added record	1	
A6		Explanation	1	
				6
	b	Candidate testing		
		Test 3 - Valid		
B1		Testing carried out - message or similar evidence provided	1	
B2		Screen print of table showing the tested record	1	
		Test 4 - Invalid		
B3		Testing carried out - message or similar evidence provided	1	
B4		Screen print of table showing the tested record not stored in table or other evidence that records are not stored	1	
		Test 5 - Invalid		
B5		Testing carried out - message or similar evidence provided	1	
B6		Screen print of table showing the tested record not stored in table or other evidence that records are not stored	1	
				6
		Total marks for Activity 4		12

Activity		ANSWER	POSS. MARK	MAX
Activity 5		Package Sales Summary		
	a	Report (<i>do not mark the database report if the candidate details are missing from the report or the design view version is missing</i>)		
A1		A <u>database</u> report in DESIGN view (screenshot)	1	
		The Report must be printed and not a screenshot or series of screenshots		
A2		Report shows /company name and logo (award when candidate details are missing on report, if this can be seen in DESIGN view)	1	
A3		Company Name and Logo on each page	1	
A4		Only includes records for 2009	1	
A5		12 months, 18 months and 24 months on separate pages (do not award if three reports used)	1	
A6		Label in DESIGN view eg Month	1	
A7		Total number of packages for each duration sold in each month of 2009	1	
A8		Total income for each duration in each month of 2009	1	
A9		Total number of packages sold in 2009 (228) or (229 if a record has been added)	1	
A10		Total income from sales in 2009	1	
A11		No unnecessary information (eg listing all sales)	1	
A12		Correct labels	1	
A13		Grand total on final page in Report Footer	1	
A14		Formatting (no decimal places for the number of contracts and currency for income)	1	
A15		Labels amended for HCI	1	
A16		Text boxes aligned correctly	1	
A17		No standard Page Numbers or Date in the page footer	1	
		Total marks for Activity 5	max	16
SWW	S1	Authenticating Work (All WP pages have activity number in header and name, candidate number and centre number in footer / Reports have name, candidate number and centre number in report header.)	1	
	S2	Appropriate Structure (Pages in correct order & Folder assembled correctly)	1	

Activity	ANSWER	POSS. MARK	MAX
	Total for SWW		2
	Total for Paper		90

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Order Code UA022600 January 2010

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