

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Advanced Subsidiary and Advanced Level

MARK SCHEME for the October/November 2014 series

9713 APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

9713/02

Paper 2 (Practical Test A), maximum raw mark 120

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.

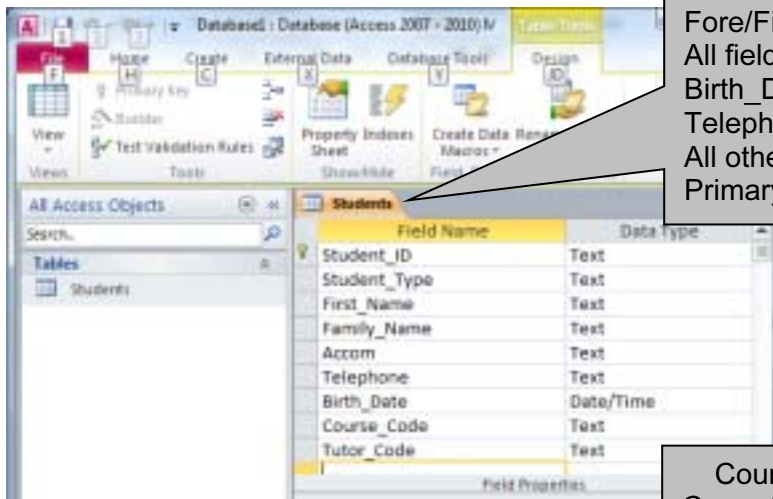
Cambridge will not enter into discussions about these mark schemes.

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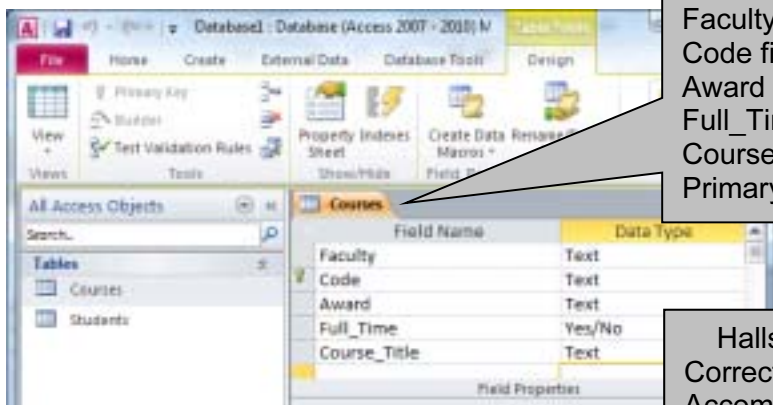
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Evidence document



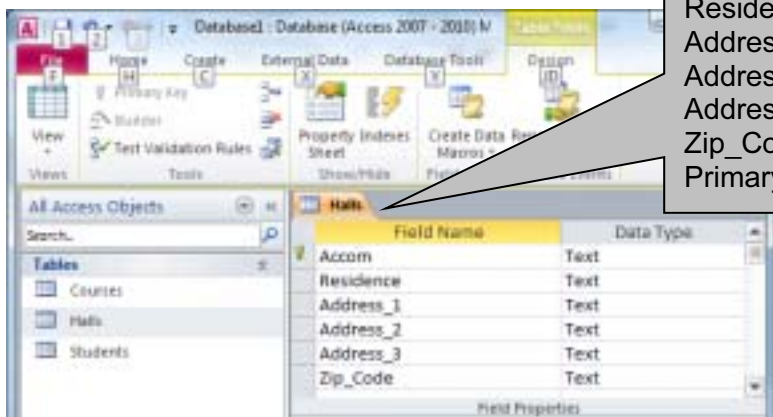
Students Table created

Correct table name	1 mark
Student_ID	1 mark
Fore/First_Name	1 mark
All fieldnames as specified	3 marks
Birth_Date as Date field	1 mark
Telephone field set to alphanumeric	1 mark
All other field types all alphanumeric	3 marks
Primary key created on Student_ID field	1 mark



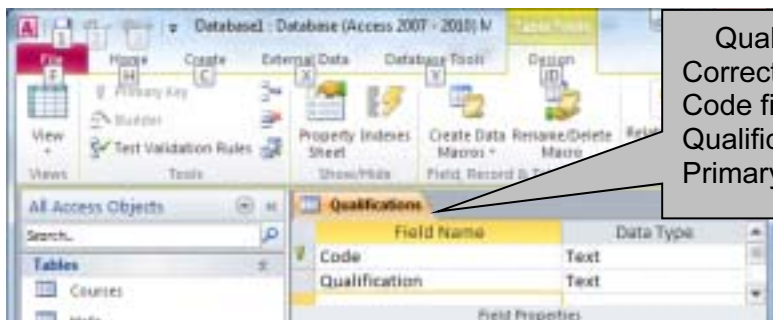
Courses Table created

Correct table name	1 mark
Faculty field set alphanumeric	1 mark
Code field set alphanumeric	1 mark
Award field set alphanumeric	1 mark
Full_Time field set as Boolean	1 mark
Course_Title field set alphanumeric	1 mark
Primary key created ...on Code field	1 mark



Halls Table created

Correct table name	1 mark
Accom field set alphanumeric	1 mark
Residence field set alphanumeric	1 mark
Address_1 field set alphanumeric	1 mark
Address_2 field set alphanumeric	1 mark
Address_3 field set alphanumeric	1 mark
Zip_Code field set alphanumeric	1 mark
Primary key created ...on Accom field	1 mark



Qualifications Table created

Correct table name	1 mark
Code field set alphanumeric	1 mark
Qualification field set alphanumeric	1 mark
Primary key created on Code field	1 mark

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Evidence document

The screenshot shows the 'Edit Relationships' dialog box. The 'Table/Query' dropdown is set to 'Halls' and the 'Related Table/Query' dropdown is set to 'Students'. Below these, the 'Accom' field is selected in both dropdowns. The 'Relationship Type' is set to 'One-To-Many'. There are checkboxes for 'Enforce Referential Integrity', 'Cascade Update Related Fields', and 'Cascade Delete Related Records', all of which are currently unchecked. Buttons for 'OK', 'Cancel', 'Join Type...', and 'Create New...' are visible on the right side.

Correct fields 2 marks
One-to-many relationship 1 mark

The screenshot shows the 'Edit Relationships' dialog box. The 'Table/Query' dropdown is set to 'Courses' and the 'Related Table/Query' dropdown is set to 'Students'. Below these, the 'Code' field is selected in the 'Courses' dropdown and the 'Course_Code' field is selected in the 'Students' dropdown. The 'Relationship Type' is set to 'One-To-Many'. There are checkboxes for 'Enforce Referential Integrity', 'Cascade Update Related Fields', and 'Cascade Delete Related Records', all of which are currently unchecked. Buttons for 'OK', 'Cancel', 'Join Type...', and 'Create New...' are visible on the right side.

Correct fields 2 marks
One-to-many relationship 1 mark

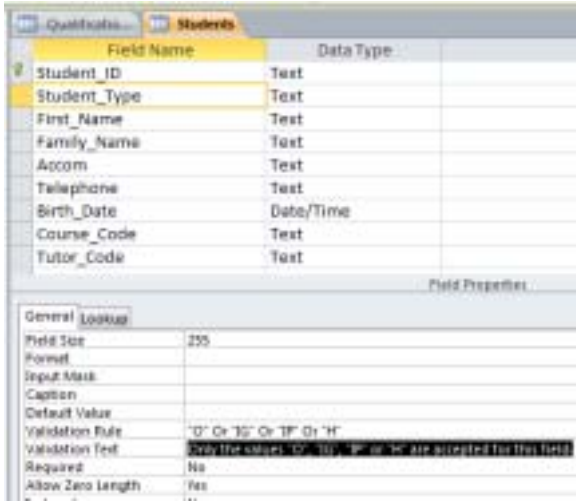
The screenshot shows the 'Edit Relationships' dialog box. The 'Table/Query' dropdown is set to 'Qualifications' and the 'Related Table/Query' dropdown is set to 'Courses'. Below these, the 'Code' field is selected in the 'Qualifications' dropdown and the 'Award' field is selected in the 'Courses' dropdown. The 'Relationship Type' is set to 'One-To-Many'. There are checkboxes for 'Enforce Referential Integrity', 'Cascade Update Related Fields', and 'Cascade Delete Related Records', all of which are currently unchecked. Buttons for 'OK', 'Cancel', 'Join Type...', and 'Create New...' are visible on the right side.

Correct fields 2 marks
One-to-many relationship 1 mark

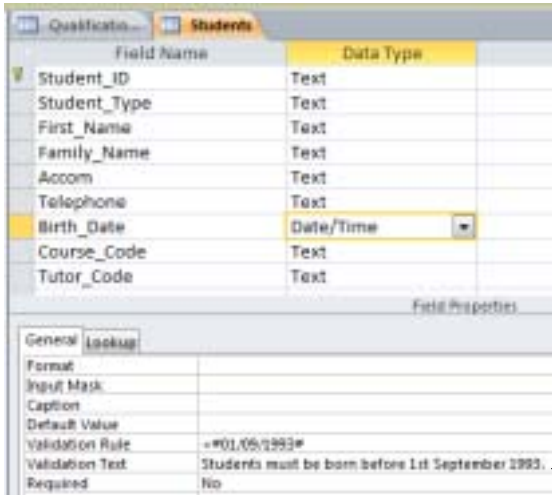
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Validation



Correct field 1 mark
 Check for all 4 entries 2 marks
 OR between each 1 mark
 Appropriate text 1 mark
 Including parameters 1 mark



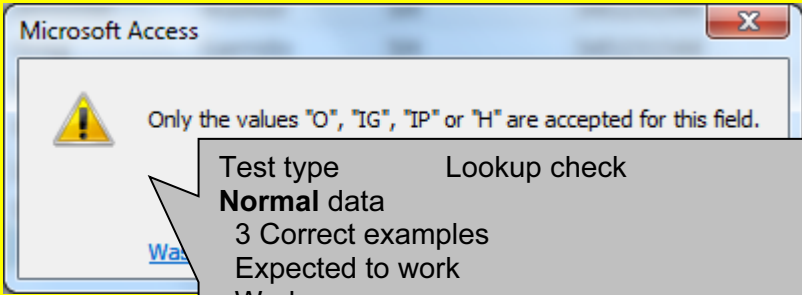
Correct field 1 mark
 < 1 mark
 01/09/1993 1 mark
 Use of # # to signify dates 1 mark
 Appropriate text 1 mark
 Including parameters 1 mark

C:\path\filename

Header	Filename & path left aligned	1 mark
Footer	Name & numbers right aligned	1 mark

Page size – A4	1 mark
Margins all 3cm	1 mark
Orientation - Landscape	1 mark
Heading 100% accurate	1 mark
36 point, serif	1 mark
Centre aligned, bold	1 mark

Validation testing

Fieldname	<i>Students.Student_Type</i>		
Test type	Lookup check		
Data chosen	Type of data	Expected outcome	Actual outcome
O	Normal	Accepted	O Accepted/Stored
IG			IG Accepted/Stored
IP			IP Accepted/Stored
H			H Accepted/Stored
Any suitable response	Abnormal	Error message	

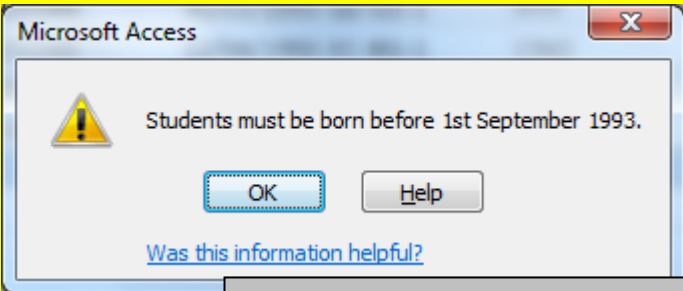
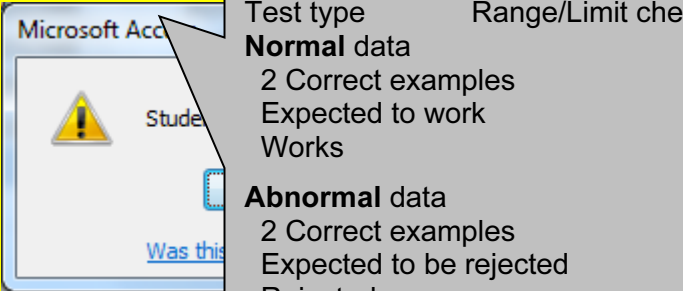
8 × 4 table with gridlines	1 mark
Text 100% accurate	1 mark
Correct cells merged	3 marks

Test type	Lookup check	1 mark
Normal data		1 mark
3 Correct examples		2 marks
Expected to work		1 mark
Works		1 mark
Abnormal data		1 mark
Correct example		1 mark
Expected to be rejected		1 mark
Rejected – screen shot		1 mark

A Candidate, XX999,9999

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C:\path\filename

Fieldname	Students.Birth_Date		
Test type	Range check / Limit check		
Data chosen	Type of data	Expected outcome	Actual outcome
31/8/1993	Normal	Accepted	31/08/1993 stored / accepted
12/12/1977			12/12/1977 stored / accepted
1/9/1993	Abnormal	Error message	
25/12/2013			
31/8/1993	Extreme	Accepted	31/8/1993 stored /

8 x 4 table with gridlines 1 mark
 Correct cells merged 1 mark
 Consistency of styles (1st table) 1 mark

Fieldname Students.Birth_Date 1 mark
 Test type Range/Limit check 1 mark
Normal data 1 mark
 2 Correct examples 1 mark
 Expected to work 1 mark
 Works 1 mark
Abnormal data 1 mark
 2 Correct examples 1 mark
 Expected to be rejected 1 mark
 Rejected 1 mark
Extreme data 1 mark
 Correct example 1 mark
 Expected to work 1 mark
 Works 1 mark

A Candidate, XX999,9999

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Halls where new carpets will be fitted

by A Candidate, ZZ999, 9999

Residence	Address_1	Address_2	Address_3	Zip_Code
Dilbridge II	University of Tawara	Dockside	Port Peppard	4309
	Thora	Weissmuller		
	Steffen	Johnson		
	Dhruv	Dev		
Eaves Hall	University of Tawara	Central	Appleton	4309
	Tracy	Royle		
	Graham	White		
	Dietmar	Strauss		
	Antonio	Rangel		
	Amy	Nichols		
	Karla	Maier		
	Claire	Turner		
	Jens	Maloi		
	Stuart	Davies		
	Sandra	Cooper		
	Summer	Kacaratchi		
	Tomas	Jacobs		
	Kratika	Gupta		
	Didier	Watson		
	Karoline	Strauss		
	Peter	Perfection		
	Louis	Claes		
	Elliot	Cotterill		
	Siddharth	Gad		
	Holly	Chase		
	Peter	Kelly		
	Annie	Rennie		
	Pat	Pushing		
	Olga	Schneider		
Surfers Lodge	University of Tawara	Mile End	Stannerley	4306
	Jonas	Verdonk		
	Des	Coupland		
	Karin	Nacht		
	Fritz	Bumgarner		
	Greg	Maury		
	Dave	Exley		
	Karsten	Vogel		
	Peggy	Hedges		
	Nadine	Ross		
	Peter	Damji		
	Angelina	Reliant		
	Tracy	Cushing		
	Liontin	Arrowsmith		
	Taran	Hafez		
	Tracy	Black		
	Steve	Miller		

Header:
 Appropriate title & candidate details 1 mark
 Correct fields:
 Residence, 2 name fields, 3 address & zip code 1 mark

Search:
 Dilbridge II, Eaves Hall, Surfers Lodge & White Knights 2 marks

Grouping:
 Residence 1 mark
 With address in group header 1 mark
 Printed single page wide & fully visible 1 mark

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Residence	Address_1	Address_2	Address_3	Zip_Code
White Knights	University of Tawara		Dunescroft	4306
	Dawid	Jones		
	Pilar	Pagan		
	Nikos	Nicolaides		
	Suzanne	Miller		
	Toni	Fernandez		
	Jeremy	Pinoir		
	Pablo	Garrido		
	Evert	Bayer		
	Eugenio	Lopez		
	Victor	Castro		
	Oral	Strauss		
	Holly	Jenkinson		
	Friedhelm	Beyer		
	Friederike	Trommler		
	Juan	Suarez		
	Traugott	Wexler		
	Michael	Royle		
	Jim	Roberts		
	Maria	Schiffer		
	Karl	Roth		
	Fatima	Hegde		
	Gerhardt	Weissmuller		
	Gunther	Schmitt		
	Rafael	Lopez		

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Header:
 Appropriate but changed title 1 mark
 Fields:
 Extra 3 fields included 1 mark
 Search:
 Refined with no Masters, Archaeology or Construction 3 marks
 Printed single page wide & fully visible 1 mark

Refined list of halls where new carpets will be fitted

by A Candidate, ZZ999, 9999

Residence	Address_1	Address_2	Address_3	Zip_Code		
Dilbridge II	University of Tawara	Dockside	Port Peppard	4309		
	Dhruv	Dev	Graphic Communication		Arts	Bachelor of Arts
	Thora	Weissmuller	History		History	Bachelor of Arts
Eaves Hall	University of Tawara	Central	Appleton	4309		
	Antonio	Rangel	History of Art and History		History	Bachelor of Arts
	Peter	Perfection	German and Economics		German	Bachelor of Arts
	Dietmar	Strauss	French and Management Studies		French	Bachelor of Arts
	Summer	Kacaratchi	Food marketing & Business Economics		Economics	Bachelor of Science
	Jens	Maloi	Graphic Communication		Arts	Bachelor of Arts
	Graham	White	History of Art		History	Bachelor of Arts
	Peter	Kelly	Ancient History and History		History	Bachelor of Arts
	Holly	Chase	Graphic Communication		Arts	Bachelor of Arts
	Kratika	Gupta	English Literature		English	Bachelor of Arts
	Elliot	Cotterill	Art & Psychology		Arts	Bachelor of Arts
	Sandra	Cooper	Art		Arts	Bachelor of Arts
	Didier	Watson	Art		Arts	Bachelor of Arts
	Amy	Nichols	Agriculture		Agriculture	Bachelor of Science
	Olga	Schneider	History of Art		History	Bachelor of Arts

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Surfers Lodge	University of Tawara	Mile End	Stannerley	4306		
Steve	Miller		English Language and Literature		English	Bachelor of Arts
Des	Coupland		Graphic Communication		Arts	Bachelor of Arts
Dave	Exley		Business Economics		Economics	Bachelor of Arts
Nadine	Ross		Animal Science		Agriculture	Bachelor of Science
Peggy	Hedges		English Literature with French		English	Bachelor of Arts
Liontin	Arrowsmith		Ancient History		History	Bachelor of Arts
Karsten	Vogel		French and German		French	Bachelor of Arts
Peter	Damji		French Studies and English Language		French	Bachelor of Arts
Tracy	Cushing		Philosophy and Italian		Philosophy	Bachelor of Arts
Tracy	Black		German and Management Studies		German	Bachelor of Arts
Karin	Nacht		Italian Studies		Italian	Bachelor of Arts
Jonas	Verdonk		English Language and Literature		English	Bachelor of Arts
White Knights	University of Tawara		Dunescroft	4306		
Gerhardt	Weissmuller		German and Economics		German	Bachelor of Arts
Rafael	Lopez		Philosophy and Classical Studies		Philosophy	Bachelor of Arts
Pilar	Pagan		Mathematics and Statistics		Mathematics	Bachelor of Science
Fatima	Hegde		Law		Law	Bachelor of Law
Holly	Jenkinson		Italian and Economics		Italian	Bachelor of Arts
Evert	Bayer		Graphic Communication		Arts	Bachelor of Arts
Traugott	Wexler		Agriculture		Agriculture	Bachelor of Science
Toni	Fernandez		Graphic Communication		Arts	Bachelor of Arts
Maria	Schiffer		Business and Management		Economics	Bachelor of Arts
Juan	Suarez		German and History		German	Bachelor of Arts
Michael	Royle		English Language		English	Bachelor of Arts
Eugenio	Lopez		History of Art		History	Bachelor of Arts

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by A Candidate, ZZ999, 9999

Header:	
Candidate details present	1 mark
Appropriate title	1 mark
Crosstab query or pivot table used	1 mark
Axes:	
Halls & Faculty	2 marks
Correct Count of students	8 marks
No row or column totals visible	1 mark
No column for Not in UoTB Halls	1 mark

Number of students from each Faculty in each Hall of Residence

Faculty	Broughton Halls	Denley Hall	Dilbridge II	Dilbridge Road	East Hall	Eaves Hall	Manley Hall	Sibley Hall	Surfers Lodge	White Knights
Agriculture		1				1			1	1
Arts	3		1			6		1	1	3
Construction	9	4	1	1	2	3		1	2	5
Economics	15	4		1	4	2	1	4	2	1
English	7	2			2	2			3	2
French	3	5			2	1		2	2	
German	3					1		2	1	2
History	10	5	1	1	6	7		6	2	5
Italian		1		2	1			1	1	1
Law	4	4				1				2
Mathematics	1				1					1
Philosophy	2	1			1			1	1	1