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GCE Advanced Subsidiary Level and Advanced Level

MARK SCHEME for the June 2005 guestion paper

9691 COMPUTING

9691/02

Paper 2 (Practical Tasks), maximum raw mark 60

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published Report on the Examination.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the Report on the Examination.

CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the June 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses

Grade thresholds for Syllabus 9691 (Computing) in the June 2005 examination.

				m	M. Papa
e thresholds for S	Syllabus 9691 (Computing) i	n the June 20		2.5
	maximum	minimum	mark required	d for grade:	196
	mark available	А	В	E	"Com
Component 2	60	54	52	40	

The thresholds (minimum marks) for Grades C and D are normally set by dividing the mark range between the B and the E thresholds into three. For example, if the difference between the B and the E threshold is 24 marks, the C threshold is set 8 marks below the B threshold and the D threshold is set another 8 marks down. If dividing the interval by three results in a fraction of a mark, then the threshold is normally rounded down.



June 2005

GCE A/AS LEVEL

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 9691/02

COMPUTING Paper 2 (Practical Tasks)

		Mary .
Page 1	Mark Scheme	Syllab A
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The mark points indicated on the mark scheme are listed below. Indicate with a tick where mark has been awarded.

Cambridge.com Please note that where a Maximum Mark is indicated, candidates cannot be awarded anything greater than that amount, even if the number of ticks against mark points exceeds the maximum. If the number of ticks is less than the maximum, then the number of ticks is the mark to be awarded.

Please ensure that you attach this mark sheet to each candidate's work.

1 (a)		each of the following attributes, providing it has been ven an appropriate data type.	
	Lecturer Table	Max 4 ma	arks
	Lecturer ID	A unique field	
		Appropriate data type	
	Lecturer name	Gives name of the lecture	
		Text string type	
	Office	Identifies the lecturer's office	
		 Alphanumeric string type contains 2 uppercase letters, 3 digits 	
		Validation/mask for Office ID	
	Phone	4-digit telephone number	
		Numeric string type	
		 Validation/mask for phone number 	
	Module Table	Max 2 ma	arks
	Module ID	A unique field	
		 Alphanumeric string type - 2 letters, 4 digits 	
		 Validation/mask for module ID 	
	Description	Name of the module	
		Text string type	
	Module/Lecture	r table Max 2 ma	arks
	Module ID	A unique field	
		Alphanumeric string type	
		 Validation/mask for module ID 	
	Lecturer ID	A unique field	
		Appropriate data type	
	• 1 mark if key	y for lecturer table has been clearly specified	
	• 1 mark if key	y for module table has been clearly specified	
		y for ModuleLecturer table has been clearly specified site key (both attributes)	
/lax 11 marks		Sub-total 1 (a)	

			2
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Page 2	Mark Scheme	Syllabus	Q.
Tage Z	GCE A/AS LEVEL – JUNE 2005	9691	9
(b) (i)	The form has a clear heading and descript	ion of its purpos	20
	 The form has a clear neading and descript There are boxes for all the attributes need 	to be input	50
Max 2 marks		Sub-tot	Anna, Do Se al (b) (i)
(!!)			
(ii)	The form has a clear heading and descript		se
Max 2 marks	There are boxes for all the attributes need		total (ii)
viax z marks		-duč-	
(iii)	• The form has a clear heading and descript	ion of its purpos	se
	There are boxes for each attribute	· · · · ·	
	The values can be chosen from the list		
Max 2 marks		Sub-t	otal (iii)
(c)	The user is asked for a lecturer's ID		
(C)	 The user is asked for a fecturer's ID This can be chosen from a list 		
	A correct list of modules is produced		
Max 2 marks	• A correct list of modules is produced	Sub-	total (c)
		045	
(d)	• There is a heading describing the purpose	of the list	
	The report has a date		
	 The page(s) are numbered 		
	 All the modules are listed 		
	In module ID order		
	All the lecturers for each module are listed		
lax 3 marks		Sub-	total (d)
2	Cive 1 mark for each acquiance analoged in p	aranthaaaa and	1 mork
2	Give 1 mark for each sequence enclosed in pa for the output		I I Mark
	N.B. Candidates are not expected to include	the parenthese	s; these
	are for marking purposes only.		
(i)	(1,2,) (4,5,6,7,8,9,10,11,) (27,28,30,31,32,33,3	34)	
Max 4 marks	Output: Invalid string	Sub t	otal 2 (i)
viax 4 marks		Sub-ti	otal 2 (i)
(ii)	(1,2) (4,5,6,7,8,9,) (11,12,13,14,15,16,18,19,2	0,21,) (25,26.)	
	(12,13,14,15,21,22,24,25,26,) (12,26,27,28,29,		
	Output: Valid string	· · · · · · · · · · · · · · · · · · ·	
lax 7 marks		Sub-	total (ii)
/:::\	(1 2 4 5 6 7 8 0) (11 12 12 14 15 16 19 10 20 2	91 \	
(iii)	(1,2,4,5,6,7,8,9) (11,12,13,14,15,16,18,19,20,2 (25,26,12,13,14,15,) (21,22,24,25,26,12,13,14,		21)
	(25,26,12,13,14,15,) $(21,22,24,25,26,12,15,14,(25,26,12,)$ $(26,27,28,30,31,32,33,34)$, 10, 10, 17, 10,20	,∠ ı,)
	Output: Invalid string		

			· · ·
Page 3	Mark Scheme	Syllabus	Q.
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Page 3	Mark Scheme	Syllabus	×.
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			www.x
3 (a)	User can only enter digits 0 and 1		
5 (a)	 User can choose one of the four operator 	$re(\pm */)$	
-	 Diser can choose one of the four operation There are three boxes, two for data entre 	$\frac{13(1, -, -, -, -)}{13(1, -, -, -)}$	
-	 There is a clear button 		ut
Max 4 marks		Sub-to	tal 3 (a)
		Cub-to	
(b)	The code is well annotated		
. ,	Meaningful names have been used thro	ughout	
	The function will accept binary number (digits)
	• The function correctly returns the decim	al equivalent	
Max 4 marks		Sub-	total (b)
_			
(c)	 The code is well annotated 		
-	 Meaningful names have been used thro 	•	
-	 The function will accept a decimal numb 		
	 The function correctly returns the binary 		
Max 4 marks		Sub-	total (c)
(4)	The ends is well expected		
(d)	The code is well annotated Mooningful names have been used three	uabout	
	 Meaningful names have been used thro There is correct code for all four function 	<u>v</u>	
Max 3 marks			total (d)
		Oub-	
(e)	• There is a set of test data for each operation	ation	
	The code correctly adds two binary num		
	The code correctly subtracts two binary		ositive
_	result	•	
ſ	The code correctly subtracts two binary	numbers with a ne	egative
	result		
F	 The code correctly multiplies two binary 		
	 The code correctly divides two binary nu 		
Max 5 marks		Sub-	total (e)