UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and Advanced Level

MARK SCHEME for the November 2005 question 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*.

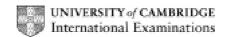
All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

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

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



Page 1	Mark Scheme	Syllabus	Paper
	GCE A/AS LEVEL – NOVEMBER 2005	9691	2

The mark points indicated on the mark scheme are listed below. Indicate with a tick where each mark has been awarded.

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.

		✓
	Give 1 mark for each of the following attributes, providing it has been	•
Question 1(a)	described and given an appropriate data type.	
Maximum 11 Marks		
	Author Table maximum 4 marks	
	Author ID • Appropriate data type	
	 Uniquely identifies the Author 	
	Author name Text/string type	
	Gives name of the Author	
	Address • Text/string type	
	Gives the address of the Author	
	Phone • Text/string type	
	11-digit telephone number	
	 Validation/mask for Phone 	
	Book Table maximum 2 marks	
	Book ID • Text/string type	
	Unique book identifier	
	 Validation/mask for Book ID 	
	Title • Text/string type	
	Title of the book	
	Book/Author table maximum 2 marks	
	Book ID • Text/string type	
	Unique book identifier	
	 Validation/mask for Book ID 	
	Author ID • A uniquely identifies the Author	
	Appropriate data type	
	1 mark if key for Author table has been clearly specified	
	1 mark if key for Book table has been clearly specified	
	 1 mark if key for BookAuthor table has been clearly specified as a composite key (both attributes) 	
	Sub-Total 1(a)	+

Page 2	Mark Scheme	Syllabus	Paper
	GCE A/AS LEVEL – NOVEMBER 2005	9691	1

		√
Question 1(b)(i)		
Maximum 2 Marks	The form has a clear heading and description of its purpose	
	The form has a clear rectaining and description of its purpose There are boxes for all the attributes need to be input	
	Sub-Total 1(b)(i)	
	500 10tal 1(5)(1)	
Question 1(b)(ii)		
Maximum 2 Marks	The form has a clear heading and description of its purpose	
	The rain has a slear resuming and assemption of its purpose There are boxes for all the attributes need to be input	
	Sub-Total 1(b)(ii)	
Question 1(b)(iii)		
Maximum 2 Marks	The form has a clear heading and description of its purpose	
	There are boxes for each attribute	
	The values can be chosen from the list	
	Sub-Total 1(b)(iii)	
Question 1(c)		
Maximum 2 Marks	The user is asked for a author's ID	
	This can be chosen from a list	
	A correct list of books is produced	
	Sub-Total 1(c)	
Question 1(d)		
Maximum 3 Marks	There is a heading describing the purpose of the list	
	The report has a date	
	The page(s) are numbered	
	All the books are listed	
	In Book ID order	
	All the authors for each module are listed	
	Sub-Total 1(d)	
Question 2	Give 1 mark for each sequence enclosed in parentheses and 1 mark	
	for the output	
	NB Candidates are not expected to include the parentheses; these	
0 (0 ()	are for marking purposes only.	ı
Question 2 (i)	(4.0.) (4.5.0.7.0.0.40.44.) (07.00.00.04.00.00.04.)	
Maximum 4 Marks	(1,2,) (4,5,6,7,8,9,10,11,) (27,28,30,31,32,33,34)	
	Output: Invalid string Sub-Total 2(i)	
Question 2 (ii)	Sub-Total 2(I)	
Maximum 7 Marks	(1,2) (4,5,6,7,8,9,) (11,12,13,14,15,16,18,19,20,21,) (25,26,)	
muximum / Marks	(12,13,14,15,21,22,24,25,26) (12,26,27,28,29,30,32,33,34)	
	Output: Valid string	
	Sub-Total 2(ii)	
Question 2 (iii)	545 Total 2(II)	
Maximum 7 Marks	(1,2,4,5,6,7,8,9) (11,12,13,14,15,16,18,19,20,21,)	
,	(25,26,12,13,14,15,) (21,22,24,25,26,12,13,14,15,16,17,18,20,21,)	
	(25,26,12,) (26,27,28,30,31,32,33,34)	
	Output: Invalid string	
	Sub-Total 2(iii)	

Page 3	Mark Scheme	Syllabus	Paper
	GCE A/AS LEVEL – NOVEMBER 2005	9691	1

		~
Question 3(a)		
Maximum 4 Marks	User can only enter digits 0 to 7	
	 User can choose one of the four operators (+ , - , * , /) 	
	There are three boxes, two for data entry and one for output	
	There is a clear button	
	Sub-Total 3(a)	
Question 3(b)		
Maximum 4 Marks	The code is well annotated	
Waxiiiaiii + Waiks	Meaningful names have been used throughout	
	The function will accept an octal number (or string of octal)	
	digits)	
	The function correctly returns the decimal equivalent	
	Sub-Total 3(b)	
Question 3(c)		
Maximum 4 Marks	The code is well annotated	
	 Meaningful names have been used throughout 	
	The function will accept a decimal number	
	 The function correctly returns the octal equivalent 	
	Sub-Total 3(c)	
Question 3(d)		
Maximum 3 Marks	The code is well annotated	
	Meaningful names have been used throughout	
	There is correct code for all four functions	
	Sub-Total 3(d)	
Question 3(e)		
Maximum 5 Marks	There is a set of test data for each operation	
	The code correctly adds two octal numbers	
	The code correctly subtracts two octal numbers with a positive	
	result	
	 The code correctly subtracts two octal numbers with a negative result 	
	The code correctly multiplies two octal numbers	
	The code correctly divides two octal numbers	
	Sub-Total 3(e)	
	7.1/	
	Total (max 60)	
		_
		-
		-