CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Advanced Subsidiary Level and GCE Advanced Level

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9691 COMPUTING

9691/13

Paper 13 (Written Paper), maximum raw mark 75

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.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE. GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

				Mary Mary	
	Page 2			Mark Scheme Syllabu	r
1	(a)	(i)	_	the physical parts of a computer system	lbr:
		(ii)	_ _ _	a peripheral device which translates signals from the computer into human readable form presents the results of processing the data to the user allow examples of devices	age com
	(b)	(i)	_	to type/enter text to be able to edit/change the report	[1]
		(ii)	_ _	to show projected sales produce graphs/calculations	[1]
		(iii)	-	to send the report electronically as an email attachment	[1]
	(c)	- - - - - - - - - - - - - - - - - - -	bard line the read whi the the the sys and men men per –	codes consist of a series of black-white lines of varying thicknesses s are taken in pairs along with the gaps between them different thicknesses create a pattern which can be interpreted as a code ntion of EAN or UPC d by a laser at the checkout ch shines a laser beam at the barcode and the reflected laser light is detected barcode can be read in either direction level of reflected light is converted to a digital reading code is then compared with the codes stored on the product file in the computer tem the required details (e.g. price) are returned to the checkout ntion of code being checked before use and buzzer sounding if read properly ntion of stock control , max 6)	[6]
2	-	kno – infe – rule –	to serence to a to a bas con con	lge base tore all the data/facts about the application e engine pply the rules in the rule base to the data in the knowledge base e tains all the rules applied to data in the knowledge base tains all the rules the inference engine uses	[6]
3		(i)	-	 any application where images used (e.g. social networking site) to show images of the owner of the page and their friends 	[2]
		(ii)	-	 any application which is interactive (e.g. tourist information board) to allow the user to ask for information and to allow the answers to be displayed 	[2]
4		(i)	- - -	software that is supplied with a piece of peripheral hardware allows communication between the hardware and the operating system converts commands from one into instructions that the other can carry out allows devices to communicate with the computer	[3]





(1 per –, max 2)

[2]





Α	В	C	D	E	F
0	0	0	1	1	1
0	0	1	1	1	1
0	1	0	0	1	0
0	1	1	0	0	0
1	0	0	0	1	0
1	0	1	0	1	0
1	1	0	0	1	0

(1 mark for each bold box)

[4]