UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Advanced Subsidiary Level and GCE Advanced Level

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for the guidance of teachers

9691 COMPUTING

9691/13

Paper 1 (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.

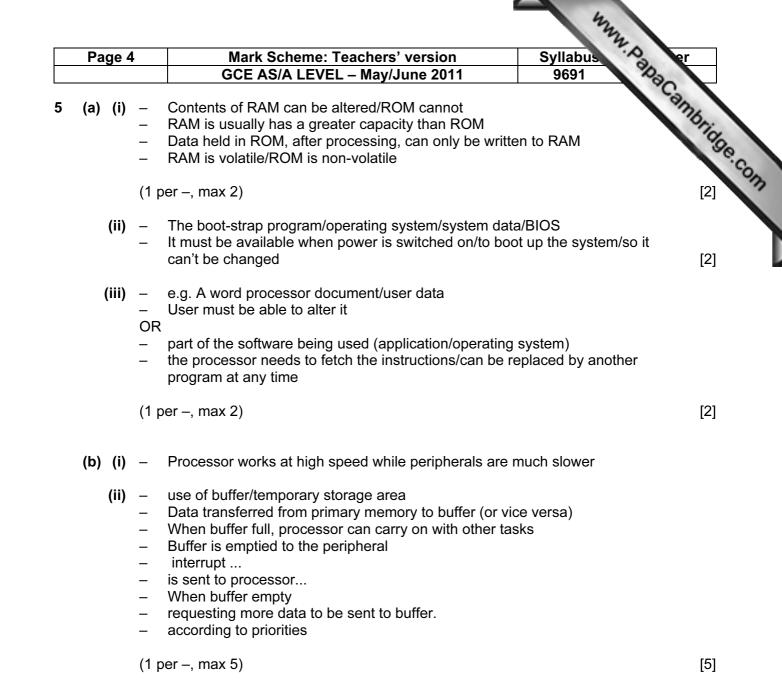
Mark schemes must be read in conjunction with the question papers and the report on the examination.

Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

P	Page	2	Mark Scheme: Teachers' version Syllabus	er
			GCE AS/A LEVEL – May/June 2011 9691	
(a)) (i)) —	A device that allows data to be sent/entered to the computer	amp
	(ii)) —	A device that will store data in the computer system (for later use)	11
(b	_ _ _	N c p tc	Mark Scheme: Teachers' version Syllabus GCE AS/A LEVEL – May/June 2011 9691 A device that allows data to be sent/entered to the computer A device that allows data in the computer system (for later use) eyboard/to allow cashier to input which film or number of tickets agnetic stripe reader/to input details of loyalty card hip and pin reader/to input details of credit or debit card binting device/mouse to make a choice uch screen to make a choice or press an onscreen button	
	(2	per	–, max 4)	[4
(c)	;) — — —	c P	creen output or soft copy/to allow customer to check tickets and prices as noices are input to system rintout or hard copy/to produce tickets for customer ound output/error or confirmation	
	(2	per	–, max 4)	[4
(d	l) (i)) — — —	Producing leaflets/flyers/brochures/posters Using frames to divide up content/editing features/ combining images and text	[2
	(ii)	_	To write letters to suppliers/customers Allows use of standard templates for documents/allows mail merge to send personalised letters to specific people	[2
		D	on't accept same point in (i) and (ii)	
	(iii)	 - - -	To keep accounts of the cinema/to keep records of tickets sold and dates sold/cumulative figures/salary details Allows calculations to be carried out on numerical data graphical representation of sales figures financial modelling automatic recalculation lookups	[2
2 (a)) – – – – –	a th A p If	anager must provide knowledge of nd requirements of business as ey are expert in how the business works. nalyst provides knowledge of what is possible articularly within confines placed by manager/e.g. budget not properly defined analyst will solve the wrong problem anager's requirements and analyst's understanding must match	
	(1	per	–, max 4)	[4

Pa	ige 3	8			ark Sc								/llabu	is ?	Do.	er
				GC	E AS/A	A LEV	/EL –	May/	June	2011			9691		Day	1
(b)	(i)	-	Importa been m		analy	rst to e	ensure	e that t	there	is evide	ence th	at all	objec	tives	hav	Cambrie
		-	or will n	not b	e paid/	/ruin h	nis rep	outatio	n							1
	(ii)	-	Importa been m		o mana	ager to	o ensu	ure tha	at ther	e is evi	dence	that a	all obj	ective	s have	
		-	or syste		nay pro	ove un	nsatisf	factory	y in the	e future						[2
(a)	_		oresente				S									
	_		que to th numbe				is equ	ual to 1	l byte/	/2 bytes	5					
	-	AS	CII/Unico	ode i	s a cor	mmon	n set									
	(1 բ	oer –	, max 2))												[2
(b)	- - - -	Lea Sta Cor	are use iding zer ndard nu ncept of o's comp	roes umbe shor	include er of bit t and lo	ed to o ts irres ong in	compl specti nteger	lete re tive of deper	quireo size o ndent	d numbe of intege on size	er of bi er	ts	-			
	(1 ជ	oer –	, max 3))												[3
(c)	_		a single or a 1/a			0s or a	all 1s	i								[2
		Do	not acce	əpt Y	′/N or 7	True/F	alse									
(a)	_	Det	ail is ado	ded 1	to the e	end of	f the fi	ïle								[1
(b)	(i)	_	ID num			ored i	in an i	index								
		_ _ _	in sequ This all To find possible	lows the	a (bina relevar	nt ID n	numbe	er and			he dat	а				
		(1 p	oer –, ma	ax 3)	Accep	ot a dia	agran	п								[3
	(ii)	Eith	ner: – –	lf h	igher t	than la	ast in i	index,	then	m of inc add to f sition an	the end					
		Or:			d value rt table		ne end	b								
		(1 p	oer –, ma	ax 2)												[2



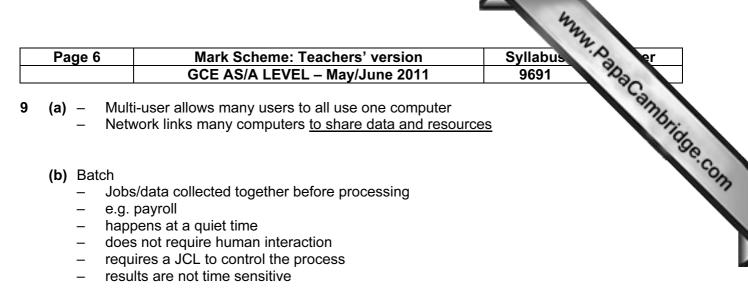
C
v

Α	В	С	D	OUT
0	0	1	0	1
0	1	1	0	1
1	0	0	0	0
1	1	0	1	1

Mark points:

- Column C first two values
- Column C last two values
- Column D first two values
- Column D last two values
- OUT first two values
- OUT last two values

P	age 5		Mark Scheme: Teachers' version	Syllabus 7. er
•	uge e	,	GCE AS/A LEVEL – May/June 2011	9691 %
- - -	Cor Use refe	ght c mbir e of c erenc	colours to attract young children nations of colours should allow for suitable contrasts colours should be consistent e.g. ticks should be green ce to colour blindness/epilepsy	S Cambridge
_ _ _ _	the Det big larg	ir sp ails butt je ch	elling like the score should be easily visible and always in the ons for ease of navigation naracters to make it easy to read should be consistent with other software in the set (e.g.	e same place
C(The cor Cor soft	e wo ere r rect nten twar	rds used should be of the correct difficulty for the age gr nust be some motivational factor like building a rocket e t should be kept to a minimum to allow concentration on e t images	ach time an answer is
(1	per –	, ma	ax 2 per section, max 6)	[6]
(a) – – –	LA	N over short distances/buildings/site // WAN geographic N uses own communication medium/WAN uses third pa N more secure/WAN more open to attack	
	(1 p	oer –	-, max 2)	[2]
(b) (i)	-	Individual bits sent one after another/along single wire In one direction only	[2]
	(ii)	-	Groups of bits sent together/along multiple wires in both directions, but only one at a time	[2]
(c) – – –	The The	e bytes are sent as a block e bytes are added up before transmission (ignoring the o e result is sent with the data and… mpared with the result of the same calculation carried ou	
	(1 p	oer -	-, max 3)	[3]



(1 per -, max 4)

[4]