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for the guidance of teachers

9691 COMPUTING

9691/03

Paper 3 (Written Paper 3), maximum raw mark 90

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.

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

CIE is publishing the mark schemes for the May/June 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

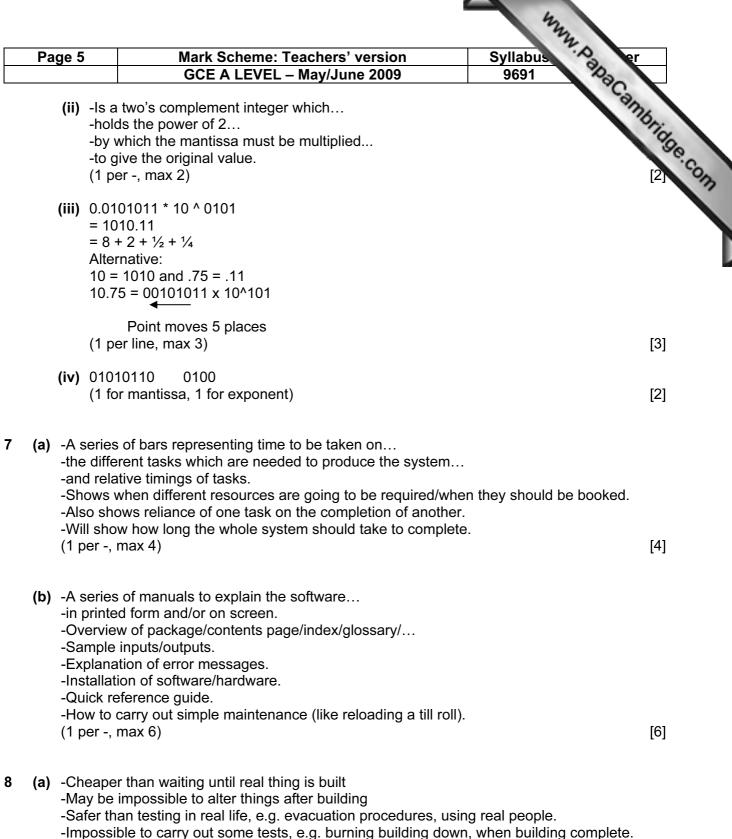
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(1 per -, max 2)

[2]

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(c)	(i)		nique identifier f Customer ID.	for a record			or the record (h
	(ii)	nece	ssarily unique.)		fering an alternativ	ve identification fo	or the record (n
		•	·		,		
	(111)	-A fie		table which is a	primary key in ar	other table/acts a	as a link between
		-Acco	ount number in	customer table li	inks records to rel	evant account in a	account table. [2]
(d)	-Wil -Do Imp -Pa -and -in I -giv -and -Ph -Pro	I have ist cor not w ortant sswor d into nierard ing di d prov ysical otectir	e guaranteed pr mply with legisla vant to lose any t to maintain da ds to get onto s different tables chical fashion fferent access r viding different v	ta integrity. system rights/RO or RW. views of the data e.g.) locking syst	customers. lata. ta maliciously alte		fingerprints/
(a)	-Ins -Us -Fo	truction tru	single process	se the same (prin	nary) memory		[3]
(b)	(i)		/202 (Sensible v ause, once senf	-	ue in the PC is inc	remented	[2]
	(ii)		ires that the ne	o instruction whic ext instruction is	ch… not to be handled	in sequence/spe	cifically, that held [2]
(a)	(i)	1101	1010				
	(ii)	1010 (1 pe	0110 er dotty)				[2]
(b)	(i)	-Plac	fractional part of the value of MSE ainder of bits ar		ation		



- -Impossible to carry out some tests, e.g. burning building down, when building (1 per -, max 3)
- [3]

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	Page 6	Mark Scheme: Teachers' version	Syllabus 7.0 er
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	-Nur -Pos -Nur -Pos -Pos -Tim	dth of aisles -to be able to assess the number of people who can mber of people in store -evacuation times will depend on number of people. sition of exits -relative to groupings of people. mber of exits -should be kept as low as is safe, for security reasor sition of fire/spread of fire -different positions will dictate flow of people/speed of sitions of different areas in store (e.g. bakery) -some areas will attract crowds of shoppers. ne taken for emergency services to arrive -expert help will alleviate the situation per -, max 3 variables, max 6)	ns.
	-all i -bec -Lar	rge quantities of data interrelating with each other cause some outcomes rely on outcomes of others. rge quantities of processing required per -, max 2)	[2]
9	-according to -When it beco -Contents of -Interrupt (an -values read	ueue with other interrupts to be done o priority. comes the highest priority interrupt it is dealt with special registers are placed on a stack/saved nd others) dealt with from stack into special registers. nterrupt(s) at end of each cycle before fetching next ir terrupts	nstruction [6]