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

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for the guidance of teachers

9713 APPLIED ICT

9713/03

Paper 3 (Written B), maximum raw mark 80

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.

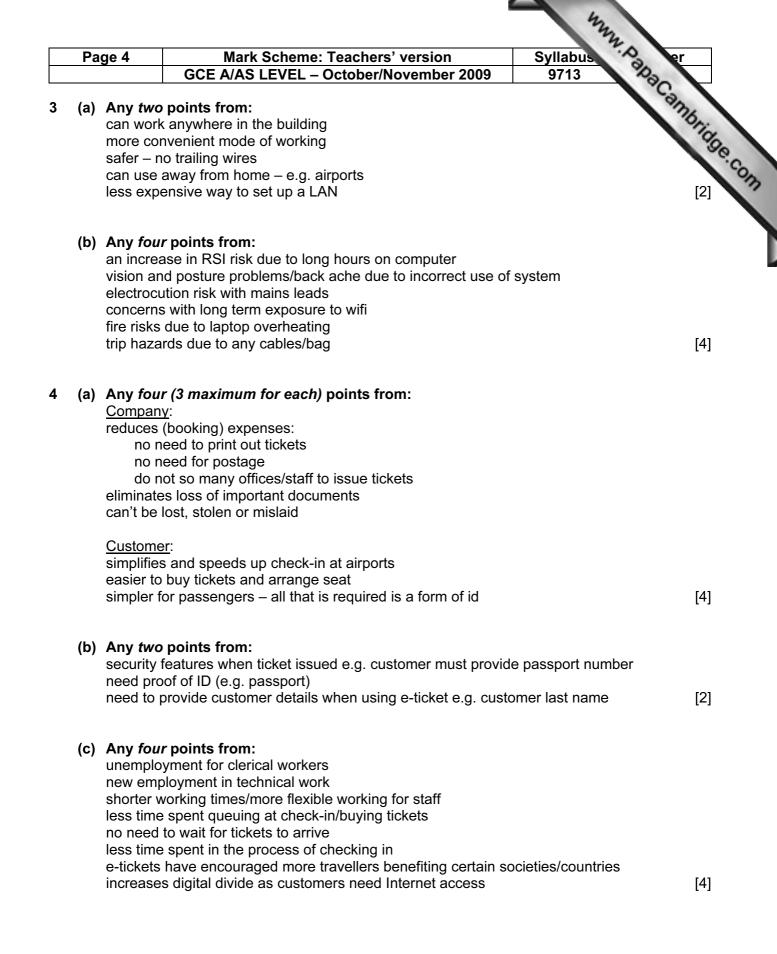
Mark schemes must be read in conjunction with the question papers and the report on the examination.

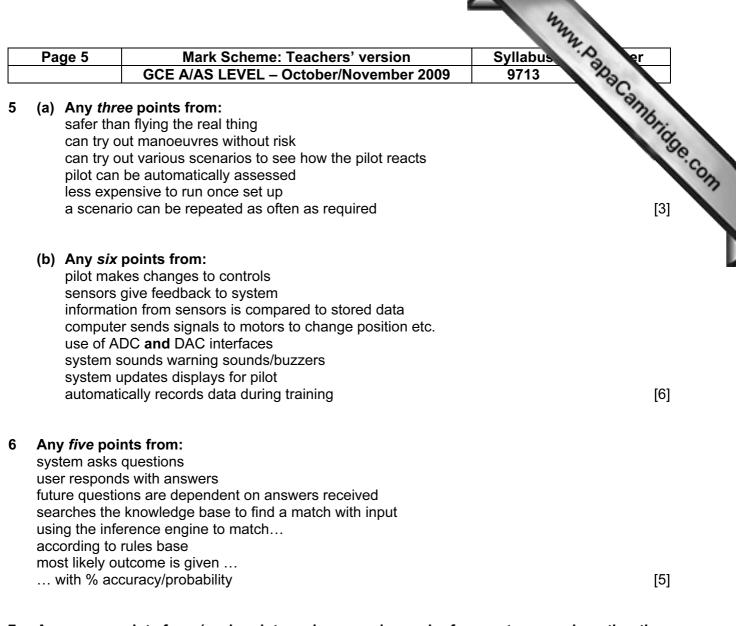
CIE will not enter into discussions or correspondence in connection with these mark schemes.

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

	age 2	2 Mark Scheme: Teachers' version Syllabus	er
		GCE A/AS LEVEL – October/November 2009 9713	2
(a)	age 2 Mark Scheme: Teachers' version Syllabus GCE A/AS LEVEL – October/November 2009 9713 Any three points from: files are compressed MP3 file is 1/10th the size of a normal "song" file developments in CODECs removes high frequency information however: higher the bit rate, larger the file, less can be stored but music quality is better more compression results in lower quality sound		tter [3]
(b)	pos muc torr MP disk vide Blue MP	y four from: ssible to download files from the Internet ch more material on the Internet rent type of usage more prevalent 23/4 players/flash memory cards are more available/have larger capacities/chea k storage eo on demand being promoted by service providers le ray technology with more information/higher quality 23/I-Pod docking stations have replaced CD players nbined mobile phone/MP3/movie players	per hard [4]
(c)	(i)	Any four points from (max 3 advantages and 3 disadvantages): <u>advantages</u> more programmes available not as affected by atmospheric conditions high definition sound/picture better format for compression better quality recordings possible more sophisticated programme guide	
		disadvantages	
		can break up (pixelate) if signal is interrupted time lag requires special electronic decoders hardware can be more expensive	[4]

Ра	age 3	Mark Scheme: Teachers' version	Syllabus & er
	<u> </u>	GCE A/AS LEVEL – October/November 2009	9713 92
(a)	problems compute mon stole fraud viruses/tu hacking i dele "spyware tracking i solution locked ro firewalls digital ce encryptic anti-virus user ids	ark for each problem (max of 3) and one mark for eas ear fraud hey taken from Daniel's accounts en customer ids idulent orders placed by hackers trojan inserted into web site into systems eting/amending and distributing personal data e" on computer system sites logging customer interests	S
(b)	Monitorir authentic Any three use of er use of we on line cl	ware software ing web traffic ication techniques ree points from: mails and attachments veb forms on his website to answer queries chatting/instant messaging/webcams for a webcast/for	[6] orum
	mail mer	/oIP technology rge email newsletter naintains a blog/twitter site	[3]
(c)	use of so use of di web auth DTP/wor photo im use thum use of lib use of cli	any four of the following: canners to import images of his products igital cameras to take photographs of his products horing packages to create his web site rd processors to create text hage editing of images for the web site mbnails to link to full sized image/fit a number of image brary of designs lip art to save time alleries to save time	ges on one page [4]
(d)	dot matri this uses	Irk for device and one mark for reason: rix printer s physical pressure/impact printer goes through several pages	[2]





7 Any *seven* points from (each point needs expansion and reference to scenario, rather than generic responses, to gain the mark)

analysis

research similar systems, establish I/O, look at existing system, observation/questionnaires/ interviews of users/managers

design

hardware and software specification for this situation, I/O layouts, establish suitable validation rules, create suitable file structures

developing

create data structures, amend structures and program modules in light of testing testing

test each module with normal/live data, test each module with abnormal and extreme data, test system with all modules connected

implementation

parallel runs, direct changeover, phased implementation, pilot run

documentation

technical documentation (test plans and runs, purpose, listings, flowcharts, etc.) and user documentation (guide to software and hardware that makes up the system) evaluation

evaluate system with regards to efficiency, evaluate system with regards to ease of use, compare to user requirements etc. [7]

