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

## www.papacambridge.com MARK SCHEME for the May/June 2011 question paper

## for the guidance of teachers

## 9713 APPLIED ICT

9713/31

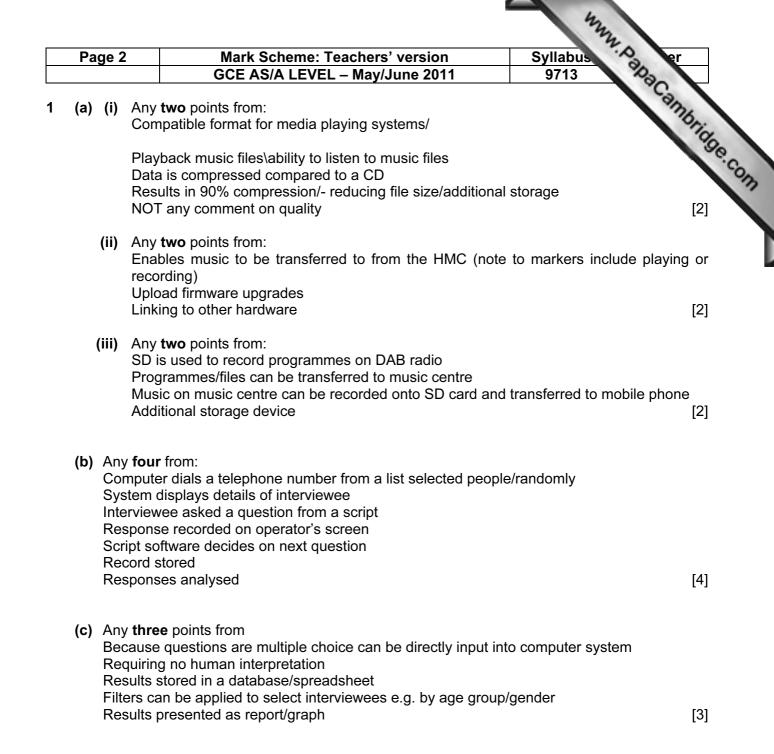
Paper 3 (Written B), maximum raw mark 80

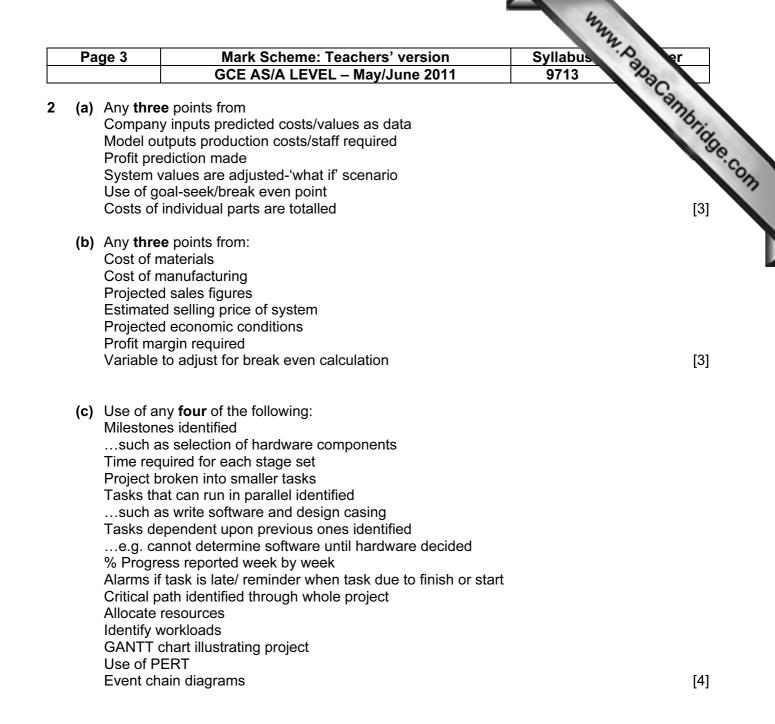
This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

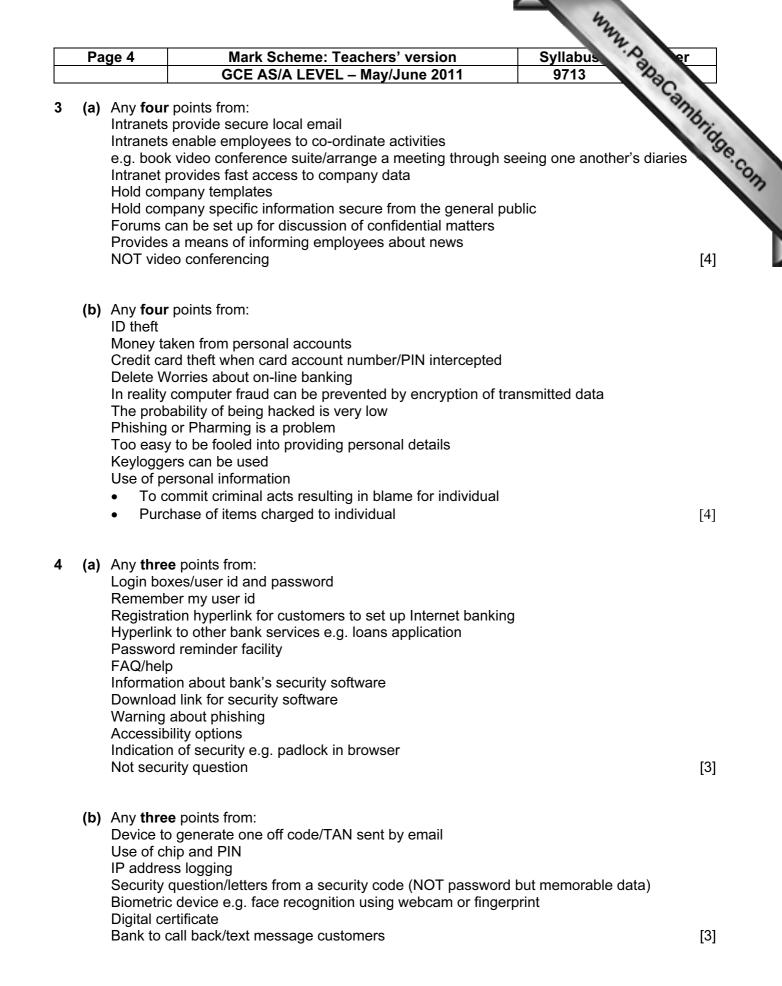
Mark schemes must be read in conjunction with the question papers and the report on the examination.

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.







-	e 5	Mark Scheme: Teachers' version	Syllabus Syllabus	[
		GCE AS/A LEVEL – May/June 2011	9713 230	
<b>(c)</b> A	Any <b>th</b>	hree from:	Syllabus 9713 9713	24
ſ	i) Vi	/irtual Private Network		1
(	,	ecure means of tunnelling using public network		
		cheaper than creating a private WAN		
	U	lsed by staff remotely to access system		[3]
(ii		oice over Internet Protocol		
		lses Internet/Intranet to carry telephone calls		
		ound input is compressed for transmission Requires dedicated software		
		nter-branch/international calls are cheaper than landline c	alls	[3]
(iv	<b>/)</b> Pr	roxy server		
	A	cts as a buffer between a LAN and a WAN/Internet		
		ilters requests from users/returned pages		
		lses a cache of requested pages hence reducing time to Only requires 1 network link to the Internet	download a page	
		inables better management of the usage of the Internet		
	Fo	orwards user requests to appropriate server		
		teturns web pages requested if allowed		го
	31	tores pages for faster browsing		[3
Any <b>e</b>	eight	points comparing from:		
Hardv	ware	and software comparison		
	-	andwidth, size of screens, costs, dedicated suites		
		are used compared igh level directors discussion compared to learning projec	cts in school	
Secur	rity co	onsiderations		
		nunications requirements		
Qualit	ty of t	transmission		
Maxin	num	of 6 marks for just one system		[8]
		points from:		
Much		er to reach a decision for bank		
D - 1		number of bad debts for bank ore accurate advice than a bank employee		
give Redu	Le ced s	eading to better customer satisfaction staffing required to deal with customer requests bayroll		[3

	Mark Scheme: Teachers' version	Syllabus 9713 9713 es			
	GCE AS/A LEVEL – May/June 2011	9713 230			
Any <b>six</b> point	s from:	2017	1		
	uld apply to go on electoral register	1	2.		
•	vernment news		'%		
-	local tax records		-		
Email local go	vernment				
	ial documents e.g. driving licence or passport				
	5 1 5 5 1				
	Read a blog from local government				
•	with local government				
•	o local government				
Apply for grar Identify mem					
Look up map					
	s of registered businesses				
	f local facilities Opening times of services/schools/to	ourism/hospitals			
	for local elections	• -			
	ler for a contract				
NOT online s	nopping except for specific Local Gov items e.g. bo	ok to pass the driving test	[6]		
New sma Developr Advance Online sh More/che Compute Open sou Electric p Broadbau Improved more w Enables	ns cost is also falling ller processors have produced smaller/cheaper PC nents in ICT encourages recycling of older equipme s in devices enables disabled people to use ICT topping enables housebound people freedom of che aper Computer based training rs provided in public places for people to use urce software has improved for users ower provided manually- e.g. windup systems and is being introduced into more areas/attracting mo telecom links to remote areas e.g. more satellites idespread network for mobile phones nformation to be more accessible none broadband development	nt that can be used bice	[5]		
	from: ourses in using computers				

		3334
Page 7	Mark Scheme: Teachers' version	Syllabus Syllabus
	GCE AS/A LEVEL – May/June 2011	9713

GCE AS/A LE	EVEL – May/June 2011 9713		
Any <b>eight</b> points. Max 5 for bullet p	EVEL – May/June 2011     9713       points if fail to describe any preventative measures       prevention       • Not very common due to security in place such as firewall		
problem	prevention		
unauthorised access to a system	<ul> <li>Not very common due to security in place such as firewall</li> <li>And encryption will make reading the data even more difficult</li> <li>Use of non-dictionary passwords</li> <li>Regularly changing password</li> <li>Use of access rights to limit users</li> </ul>		
Deliberate sending of malware	Ensure anti-software is kept up to date		
Phishing	<ul><li>Do not open unknown emails</li><li>use filtering of emails</li></ul>		
Pharming	Advise users of the risk		
Cyberbullying	Prevented by education young people		
Grooming	Prevented by education young people		
Spam	Use of spam filters		

[8]