www.papacambridge.com MARK SCHEME for the October/November 2013 series

9713 APPLIED INFORMATION AND **COMMUNICATION TECHNOLOGY**

9713/13 Paper 1 (Written A), 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 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 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

raye z	Mark Scheme GCE A LEVEL – October/November 2013	Syllabus Poper 9713 Poper
(a) Two from Involves Work mo over a Usually i	n: working the same number of hours as normal/in a week ore hours per day shorter number of days nvolves working 4½ days in a week/9 days out of 10 in a	a period of two weeks [2]
(b) Two from Earn the They can Travel to Travel to	n: same amount of money but work fewer days n have long weekends by finishing early on Fridays or no work fewer days so less time spent travelling work fewer days so less money spent travelling	ot working Fridays [2]
(c) Two from Allowing punctual Program Appeals	n: for programmers' individual needs leads to lower absen ity among programmers mers prefer flexibility so are more productive/more motiv to programmers so helps recruitment and retention of st	teeism/better /ated aff [2]
(a) Three from There are Pietr wood Pietr wood time whee Calenda Pietr wood Petr sets Calenda	om: e personal (users' own) calendars and public calendars uld open his private calendar to see when he is free uld open the public calendar showing when other worker d see when there would be a suitable time for a meeting en he is free and when others are free/where there are n r software would advise him of any clashes. uld type in the details of the meeting an alarm to alert him when the meeting starts r function keeps a record of appointments and meeting t	rs are free / identify a suitable o clashes imes [3]
(b) Three pa Acts as a enable Pietrr jus compu Can look comp Can see if too n Allows th allows Software needed o he will Using Ga can weekly p	aired descriptions from: a stopwatch device to time tasks es tasks to be allocated equitably st clicks on a specific task uter reminds them how long they have been working on to a t many tasks uter informs them how long has been spent on each task what emphasis is being placed on each task much time is being spent on a task by one programmer be manager to allocate extra workers to a task/redistribut the manager to allocate extra resources to a task e can also be used as a predictor/if Pietr is accurate on a task be able to allocate resources appropriately antt charts see the effect of changing order of tasks more easily anning	hat task k te workload at predicting the time y/helps with daily and



Page 4	Mark Scheme	Syllabus Syllabus	er 🛛
	GCE A LEVEL – October/November 2013	9713	
(c) Pilot run Descripti system s	<i>ning</i> on – involves running new system in one branch of th till operates in other branches	ne organisation whilst o	nbridge
Advanta Disadva have to I	ge – If there is a problem with the new system only one ntage – the method is a lot slower than direct chan nave their systems running before system is fully imple	e branch is affected igeover (as all branches emented)	[1]

Using actual test results to compare with the expected results. Obtaining feedback from users regarding how easy the system is to use Identifying limitations of the system Discussing with managers whether new system has met the original objectives [3]

5 (a) Three from:

Word processing software to edit/format the reporter's story Image editing software to crop the images to remove unwanted material/ to reduce the size to fill the layout Desk Top Publishing software to produce the layout of the magazine page. [3]

(b) Three from:

(Digital) <u>Signals</u> are used to send the pages up to a satellite...
...satellite transmits the signal to the printing plant (and then received by the antenna/ receiver)
Signal passed over to Computer-to-Plate equipment.
The (digital) signal is changed to a laser beam.
A new plate is created
The plate is then loaded on to the printing press.

[3]



Indexes will make sequential file faster to search

[4]

(c) [Three ma Range ch Invalid ch Length ch Invalid ch Check dig Range ch Reasons: Data may Digits ma Length ch Type che Type che Type che Three fro Don't hav	GCE A LEV tched pairs fror eck on student aracter/Type ch leck on student aracter/Type ch jit on student nu eck on student nu eck on student nu ck on student nu ck on student nu ck on exam man	VEL – Octob m: score so it is neck on exam number so it neck on stude umber number so it nsposed number won't trk might still a	between 0 a score so it is ten digit ent number is between agly 't trap letter trap fewer/r allow abnor	ber 2013 0 and 100 it is numeri ts/characte r so it is nur n 10000000 ers being er /more than rmal data to	c only rs long meric of 000 and 10 digit o be en	9713 nly 1 99999999	999	Cambrid
(c) [Three ma Range ch Invalid ch Length ch Invalid ch Check dig Range ch Reasons: Data may Digits ma Length ch Type che Type che Type che Three fro Don't hav Wages	tched pairs fror eck on student aracter/Type ch leck on student aracter/Type ch jit on student nu eck on student nu have been tran y have been tran y have been tran ck on student nu ck on student nu ck on exam man	n: score so it is neck on exam number so it neck on stude umber number so it nsposed number won't umber won't f rk might still a	between 0 a score so it is ten digit ent number is between agly 't trap letter trap fewer/r allow abnor	0 and 100 it is numeri ts/characte r so it is nur n 10000000 ers being er /more than rmal data to	c only rs long meric of 000 and 10 digit o be en	nly I 9999999 Is tered	999	ambrid.
(a) [[[[[Three fro Don't hav Don't hav	m: e to rent so mai e to emplov so	ny main stree						
	Lower run Because Can be o	ining costs for e of lower costs, p oen 24/7 thereb	many shop a electricity, hea prices are che y increasing t	et premises assistants s ating and lig eaper <u>so m</u> their sales/	s so compa so compar ighting <u>nore custor</u> s/earnings/	ny save ny save <u>ners are</u> could ga	es money s money/p <u>e attractec</u> ain increas	bays les <u>1</u> sed prof	s in fits [3]
(b) (((((((((((((((((((Three fro Can orde Goods ar May be h <u>Expense</u> You can't in stock The orde	m: r goods/books a e not to the sam dden costs suc of buying a com check the qual r confirmation m	and they don't ne standard a h as delivery nputer with a l lity of the goo nay be delaye	t get delive as those ord charges broadband ods/books/y ed/not be re	ered ⁺dered/wror d internet co /you can't b eceived	ng good onnectio oe sure	s/books d on the goods	elivered s/books	are [3]
(c) [; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Two from Phishing ask for cu e-mail ma which loo two from Pharming	: - e-mail appear stomer's details akes up plausit ks just like the a - installs a pied	to be from co s - password, ble reason in actual bank/sl ce of maliciou	ustomer's s card/accou cludes a w hop's webs us code on	shop/bank ount numbe website ad site but is a n customer'	r, other dress fo i fake w s PC	security c or custom ebsite	details. ner to go	o to

Software detects key presses of user logging on to bank site

[6]