UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0420 COMPUTER STUDIES

0420/31

Paper 3, maximum raw mark 60

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.

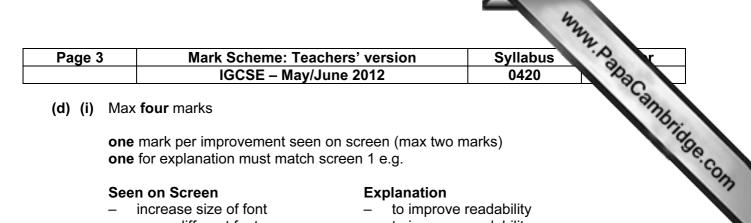
Mark schemes must be read in conjunction with the question papers and the report on the examination.

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

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Pa	age 2	Mark Scheme: Teachers' version Syllabus					
		IGCSE – May/June 2012 0420					
(a)	Any	Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2012 0420 three points from, max 3 marks: 0420 Gantt chart PERT (Program/Project Evaluation Review Technique) chart Project management software Spreadsheet (software)	Shi				
	_	Gantt chart	0				
	-	PERT (Program/Project Evaluation Review Technique) chart					
	-	Project management software					
	_	Spreadsheet (software)					
(b)	one	mark for identifying why the method identified would be suitable for the holiday park	[4]				
(~)							
	one mark for a further explanation that matches chosen method.						
	(i)	Questionnaire for guests e.g.					
	.,	 ensures that all the guests are asked the same questions 					
		 so results from many responses can be analysed 					
		 no need for analyst to be present 					
		 more efficient as there are many guests 					
		 can provide incentives for guests to return questionnaire 					
	(ii)	interviewing for reception staff e.g.					
		 allows questions to be tailored to the individual members of (reception) staff 					
		 can ask supplementary questions 					
		 can ask for clarification 					
		 (reception) staff may tell you things that you haven't identified as issues 					
	Max	4 overall, max 2 for each part					
	(iii)	Any one from					
		 observation 					
		 document search 	[1]				
(-)	0	mark nor dovice, and mark nor reason why it would be suitable for the for the balls					
(C)	parl	e mark per device, one mark per reason why it would be suitable for the for the holic	iay [4]				
	•						
	-	Wireless adapter/Network Interface Card/NIC					
	—	to allow a computer to access the LAN (from anywhere within the holiday park) Wireless Access Point/WAP/bridge					

- Wireless Access Point/WAP/bridge
- to extend the reach of the LAN as the holiday park covers a large area
- (Wireless) router/(Wireless) hub
- to enable computers in the holiday park to connect to the LAN/....to relay signals to the computers on the LAN
- <u>Host computer</u>/Server
- to manage the LAN
- (hardware) firewall
- to restrict access to bookings only



Seen	on	Screen
------	----	--------

- increase size of font
- use a different font
- add suitable pictures _



Explanation

- to improve readability —
- to improve readability _
- to make the screen more attractive/ _ understandable
- so the user knows what this screen is for

(ii) Max four marks

one mark per improvement seen on screen (max two marks) one for explanation must match screen 2 e.g.

Seen on Screen

- password entry to system _
- move instructions _
- change/lighten colour of box
- move box next to instructions

Explanation

- to improve security —
- for a better start point _
- _ to attract attention better
- to make the action clearer _
- (e) One mark for every correct symbol

Process

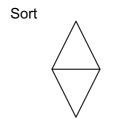


Keyboard entry

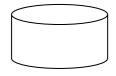


or



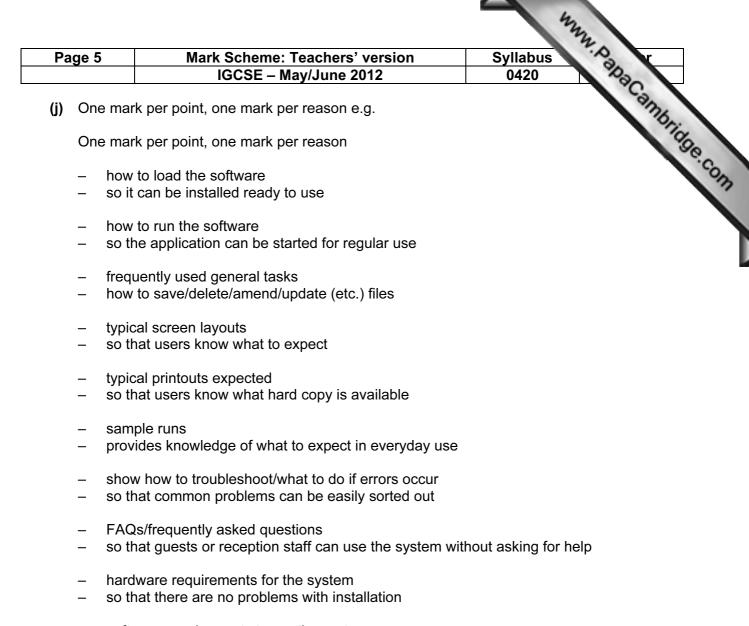


Disk storage



[4]

Page 4	Mark Scheme: Teachers' version Syllab	ous 2 r
	IGCSE – May/June 2012 042	0 102
– Gu – <u>Or</u> – Ch – Bo – Up	ark for per process, max 4: lest) selection of activity (type/time) <u>ganiser</u> selecting a of list of participants to print lecking for available places oking activity/Reserving places dating correct holiday home account lecking holiday home number/password	www.papacambridge.
– (Gu – hol – act	ark per input, max 3 lest) selection of activity (type/time) liday home number/password tivity details rticipant details (number, names, ages)	
– act – pai – hol	ark per data store, max 2 tivities rticipants liday home accounts/guest details tabase <i>(only if none of the above are given)</i>	
– Lis – Co	ark per output, max 2 t of Activities (screen not paper) nfirmation of booking (screen not paper) t of participants for an activity (paper)	
 log use che With Ne 	nree points from: pin/password e of firewall ecking of MAC addresses/station ids red Equivalent Privacy/WEP/wireless security/encryption wwork name NOT broadcast ti-spyware/ anti-virus software	[3]
– cai – in c – sof	nree points from n be tailored to the meet the requirements for activity booking contact with the actual programmers if there is a problem ftware can develop as it is used esn't contain unwanted features	[3]
- 36 - 50 - 49	ark per example suitable for number of participants, one mark p – this checks that system can accept appropriate inputs – rejected boundary value – accepted extreme value – this checks that negative numbers are rejected	ber reason [6]



- software requirements to run the system
- so that the application works as expected
- how to carry out specific tasks
- such as printing activity lists/ booking an activity etc.
- how to use a touch screen
- for selecting an activity
- etc.
- (k) One mark per advantage, one mark per suitable example that exactly relate to the holiday park (the following are just examples) [6]
 - more flexible booking guests can book from many different places
 - less likelihood for information to be lost no paper lists that need to be kept at reception for a week
 - fewer staff are now required guests do their own booking not the reception staff
 - fewer queues more terminals available for guests to book from
 - less storage space required booking forms stored electronically
 - greater flexibility for guests bookings can be made up to half an hour before an activity starts instead of an hour

