UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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### for the guidance of teachers

## 0420 COMPUTER STUDIES

0420/32

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.

Page 2	Mark Scheme: Teachers' version	Syllabus
	IGCSE – May/June 2012	0420
, ,	ee points from, max 3 marks:	
– PEI	RT (Program/Project Evaluation Review Technique	e) chart
Dre	ect management 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
- (c) One mark per device, one mark per reason why it would be suitable for the for the holiday park [4]

[1]

- 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
- 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

Page 3	Mark Scheme: Tea	achers' version	Syllabus 20 r	
	IGCSE – May/	June 2012	0420	
(d) (i)	Max <b>four</b> marks		and	
	<b>one</b> mark per improvement see <b>one</b> for explanation must match		o marks)	1996.00
	Seen on Screen — increase size of font	<b>Explanation</b>	ve readability	

#### (d) (i) Max four marks

Seen of	on S	creen
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- 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	Syllabus C
	IGCSE – May/June 2012	0420 230
– Gu – <u>Or</u> – Ch – Bo – Up	ark for per process, max 4: lest) selection of activity (type/time) ganiser selecting a of list of participants to print lecking for available places oking activity/Reserving places odating correct holiday home account lecking holiday home number/password	Syllabus 0420 Recombininge
– (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 at of Activities (screen not paper) onfirmation of booking (screen not paper) at of participants for an activity (paper)	
– log – use – che – Wi – Ne	nree points from: jin/password e of firewall ecking of MAC addresses/station ids red Equivalent Privacy/WEP/wireless security/encrypti twork 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 b contact with the actual programmers if there is a proble ftware can develop as it is used esn't contain unwanted features	0
- 36 - 50 - 49	ark per example suitable for number of participants, on – this checks that system can accept appropriate inpu – rejected boundary value – accepted extreme value – this checks that negative numbers are rejected	

Pag	je 5	Mark Scheme: Teachers' version	Syllabus Syllabus
		IGCSE – May/June 2012	0420 230
(j) (	One ma	rk per point, one mark per reason e.g.	Syllabus 0420 Banacanno
(	One ma	rk per point, one mark per reason	
-	– how	v to load the software	
-	– soi	t can be installed ready to use	
-	– how	v to run the software	
-	– so t	he application can be started for regular use	
-	– freq	uently used general tasks	
-	– how	v to save/delete/amend/update (etc.) files	
-	– typi	cal screen layouts	
-	– so t	hat users know what to expect	
-	– typi	cal printouts expected	
-	– so t	hat users know what hard copy is available	
-	– san	nple runs	
-	– prov	vides knowledge of what to expect in everyday use	
-	– sho	w how to troubleshoot/what to do if errors occur	
-	– so t	hat common problems can be easily sorted out	
-	– FAG	Qs/frequently asked questions	
-		hat guests or reception staff can use the system wit	thout asking for help
-	– har	dware requirements for the system	

- so that there are no problems with installation
- 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

