## MARK SCHEME for the May/June 2012 question paper

## for the guidance of teachers

# **7010 COMPUTER STUDIES**

7010/31

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.

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[3]

[1]

- 1 (a) Any three points from, max 3 marks:
  - Gantt chart
  - 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
- (c) One mark per device, one mark per reason why it would be suitable for the for the holiday park [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
  - 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

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

**one** mark per improvement seen on screen (max two marks) **one** for explanation must match screen 1 e.g.

Seen	on	Screen	Ì
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- increase size of font
- use a different font
- add suitable pictures

add suitable heading

# Explanation to improv

- 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

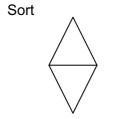


### Keyboard entry

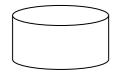


or





Disk storage



[4]

[4]

Pa	ge 4	Mark Scheme: Teachers' version	Syllabus	Paper
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(f)	<ul> <li>Gue</li> <li>Orga</li> <li>Che</li> <li>Boo</li> <li>Upd</li> </ul>	k for per process, max 4: st) selection of activity (type/time) <u>aniser</u> selecting a of list of participants to print cking for available places king activity/Reserving places ating correct holiday home account cking holiday home number/password		[8]
	<ul> <li>– (Gue</li> <li>– holic</li> <li>– activ</li> </ul>	k per input, max 3 st) selection of activity (type/time) day home number/password ⁄ity details cipant details (number, names, ages)		
	<ul><li>activ</li><li>parti</li><li>holic</li></ul>	k per data store, max 2 vities cipants lay home accounts/guest details base <i>(only if none of the above are given)</i>		
	– List – Con	k per output, max 2 of Activities (screen not paper) firmation of booking (screen not paper) of participants for an activity (paper)		
(g)	<ul> <li>logir</li> <li>use</li> <li>cheo</li> <li>Wire</li> <li>Network</li> </ul>	ee points from: n/password of firewall cking of MAC addresses/station ids ed Equivalent Privacy/WEP/wireless security/encrypt vork name NOT broadcast spyware/ anti-virus software	ion	[3]
(h)	<ul> <li>can</li> <li>in co</li> <li>software</li> </ul>	<b>ee</b> points from be tailored to the meet the requirements for activity l ontact with the actual programmers if there is a probl ware can develop as it is used sn't contain unwanted features		[3]
(i)	- 36 - - 50 - - 49 - 5 -	k per example suitable for number of participants, or this checks that system can accept appropriate inpu- rejected boundary value accepted extreme value this checks that negative numbers are rejected this checks that data has the right format	-	on [6]

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<b>(j)</b> Or	ne mar	k per point, one mark per reason e.g.		
Or	ne mar	k per point, one mark per reason		
_	how	to load the software		
_	so it	can be installed ready to use		
_	how	to run the software		
-	so tł	ne application can be started for regular use		
_		uently used general tasks		
-	how	to save/delete/amend/update (etc.) files		
_		cal screen layouts		
-	so tł	nat users know what to expect		
_	• •	cal printouts expected		
_	so th	nat users know what hard copy is available		
_		ple runs		
-	prov	ides knowledge of what to expect in everyday use		
_		w how to troubleshoot/what to do if errors occur		
_	so th	nat common problems can be easily sorted out		
_		s/frequently asked questions		
-	so tł	nat guests or reception staff can use the system wit	thout asking for help	
_		ware requirements for the system		
-	so tł	nat there are no problems with installation		
_		vare requirements to run the system		
-	so th	nat the application works as expected		
_		to carry out specific tasks		
-	such	as printing activity lists/ booking an activity etc.		
_		to use a touch screen		
– eto		electing an activity		
		rk per advantage, one mark per suitable example	that exactly relate	
ра	rk (the	e following are just examples)		
_		e flexible booking – guests can book from many dif	•	
_		likelihood for information to be lost – no paper lists	s that need to be kep	or at recepti
-	fewe	er staff are now required – guests do their own boo		n staff
_		er queues – more terminals available for guests to l storage space required – booking forms stored ele		

- 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

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(I) up to two points from

[2]

- consider if objectives of new system have been met
- look at results from tests
- discuss with reception/activities whether or not new system works
- look at print outs etc. to see if system produced the correct outcomes
- ask the guests whether or not system was easy to use