### **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**Cambridge Ordinary Level** 

# www.PapaCambridge.com MARK SCHEME for the October/November 2014 series

# 7010 COMPUTER STUDIES

7010/33 Paper 3, maximum raw mark 60

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Page 2	Mark Scheme	Sy. Sy	per
	Cambridge O Level – October/November 2014	701	

- 1 (a) Any three points from:
  - Gantt chart
  - Pert chart
  - Project Management (Software)
  - Spreadsheet (software)
  - Calendar software

(b) (i) Method: – questionnaire/survey

Explanation: any 2 points

asks standard questions
...so results can be analysed
no need for analyst to be present
more efficient for many students
incentives to return questionnaire, etc.

**Method:** – interview **Explanation:** any 2 points

- only needs to interview class treasurers

- can ask follow up questions, etc.

**Method:** – observation **Explanation:** any 2 points

gets reliable informationgets information first hand

- sees exactly what is happening

[3]

(ii) none of the below are suitable, the explanation must match the method and explain why the method is **not** suitable

**Method:** – interview **Explanation:** any 2 points

too many students to interview...so very time consuming

- difficult to consolidate a variety of answers

**Method:** – observation **Explanation:** any 2 points

students may find this intimidatingvery time consuming for a small system

**Method:** – document search

**Explanation:** any 2 points

would not obtain opinions from studentsdocuments may no longer be available

[3]

[3]

Page 3	Mark Scheme Sv. 70	er
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(c) (i)	Mark Scheme Cambridge O Level – October/November 2014  Content  - appropriate title, e.g. Class 3 Charity Totals - total so far in figures - graphical representation of Total - increase each week shown - date/week One mark for any one of these to a maximum of 3 marks	bridg
	<ul> <li>Layout</li> <li>intranet page is well laid out, e.g. heading, use of school/charity logo, backgroun etc.</li> <li>looks like an intranet page</li> <li>not a web form</li> <li>One mark for any one of these to a maximum of 2 marks</li> </ul>	d,
	Maximum total marks 4	[4]
(ii)	Informative  - inclusion of class number/name  - inclusion of total amount  - inclusion of date or week  - inclusion of title  - inclusion of logo/school/charity name  - inclusion of further info about fundraising  One mark for any one of these to a maximum of 3 marks	
	Interesting  - graphical representation of total (so far)  - use of colour for, e.g. different colours for different weeks  - use of appropriate multimedia  One mark for any one of these to a maximum of 3 marks	
	Maximum total marks 4	[4]

(d) (i) Laptop – easily portable round school/can be used anywhere, etc. Smart phone – always with students/familiar with using it, etc.

(ii) netbook/tablet/phablet/desktop

[2]

[1]

Page 4	Mark Scheme	Sy. 20 per
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(e) C	one mark for every <b>two</b> correct symbols	Cally
A	Process	198
В	<u>Disk/file</u> storage	260
C	Keyboard/manual entry	- OA
D	Hard copy/document output	
E	Sort/allow decision box	

## (e) One mark for every **two** correct symbols

- **Process**
- В Disk/file storage
- С Keyboard/manual entry
- **D** Hard copy/document output
- Е Sort/allow decision box
- Input/output
- G Terminator/Start and End
- Connector

0, 1 no marks

- 2, 3 one mark
- 4, 5 two marks
- 6, 7 three marks
- four marks.

### (f) One mark per process, max 4

- adding donation to class total/spreadsheet
- adding profit made to class total/spreadsheet
- adding amount to class total/spreadsheet (if marks not given for either of the above)
- updating school total (master spreadsheet)
- transferring current total to intranet
- updating intranet page

### One mark per input, max 2

- student name, (date), class, amount
- event name, (date), class, profit
- current total/amount raised this week

### One mark per data store, max 2

- class records/spreadsheet
- master records/spreadsheet
- spreadsheet/donations or fundraising records (only if none of the above are given)

### One mark per output, max 2

- intranet pages (screen)
- class spreadsheet (allow examples, e.g. graphs charts, etc.)
- master spreadsheet (allow examples, e.g. graphs charts, etc.)

[8]

[4]

		Cambridge O Level – October/November 2014 701 701	
(g)	(i)	<ul> <li>software already available</li> <li>compatible with other software in use at the school</li> <li>students familiar with using spreadsheets</li> <li>good graphical output for use with intranet pages</li> <li>contact the programmer if there is a problem</li> <li>programmer already familiar with spreadsheet functionality</li> </ul>	idde G
	(ii)	<ul> <li>many unused features</li> <li>may not meet exact requirements</li> <li>licences required for use of software</li> </ul>	[2]
(h)	ma	ne mark per type, one mark per example must be for donation, one mark per reason mus atch example.	t
	Th	e following are examples only; there are many correct answers.	
	_ _ _	normal \$2.50 this checks that system can accept appropriate inputs	
	_	erroneous/abnormal -\$2.00	

[9]

Mark Scheme

checks that negative numbers are rejected

checks that boundary/extreme data is accepted

boundary/extreme

\$10.00

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Page 6	Mark Scheme	Sy. Noer
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		3
(i) I	Marking points	3
-	- initialisation	O.
-	- loop control	Morida
-	- input amount of donation	260
_	- check in range 1.00	- On
-	to 10.00	7
_	- output error message	
_	- increment error count	•

### (i) Marking points

- initialisation
- loop control
- input amount of donation
- check in range 1.00
- ...to 10.00
- output error message
- increment error count
- exit if 3 attempts have been made
- continue if donation valid

### Sample algorithm

```
error count = 0
                                                              (1)
repeat
                                                              (1)
   input donation
   if donation < 1 or donation > 10
                                                              (2)
      then
      print "Donation amount must be between $1 and $10"
                                                              (1)
                                                              (1)
      error count = error count +1
      else error count = -1
                                                              (1)
   until error count = -1 or error_count = 3
                                                              (1)
   if error count = 3 then exit
                                                              (1)
                                                                       [6]
```

### (j) Max two marks per advantage

One mark per advantage, one mark per suitable example that clearly relates to the school charity donation system (the following are just examples)

- fewer errors donations are only recorded once
- less likelihood for information to be lost backups can be made of the spreadsheet more easily than making copies of the class record books
- takes less time for class treasurers entries no longer need to be copied when payments are taken to the school office
- output looks more professional intranet pages rather than hand drawn on paper [6]

### (k) up to two points from

- consider if objectives of new system have been met
- look at results from tests
- discuss with school office staff whether or not new system works
- ask the students
- whether or not the new system was easy to use

[2]