UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0420 COMPUTER STUDIES

0420/33

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.

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Cambridge is publishing the mark schemes for the October/November 2011 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 | r |
|-----|--------------------|--|----------------------------------|---------|
| | | IGCSE – October/November 2011 | 0420 | |
| (a) | Any two | points from: | Syllabus 0420 | mb |
| | Gantt cha | | | 1 |
| | Pert char | | | |
| | • | lanagement Software neet (software) | | [2] |
| | Opredusi | | | ۲4 |
| (b) | | k for identification of method | | |
| | | k for identifying why the method identified would b marks for a further explanation that matches cho | | tailer |
| | Method | - questionnaire | | |
| | Explanat | tion - each set of questions guides salesman/cus | tomer/filing clerk through the | eir use |
| | | of the existing system - no need for analyst to be present can le | ave questionnaire for custo | mers |
| | | salesmen filing clerks | | |
| | | - useful as can survey many customers | | |
| | | allows customers/salesmen filing clerks to re saves analyst's time etc. | emain anonymous | |
| | Method | - interview | | |
| | Explanat | tion - allows questions to be tailored to salesmen/ | | |
| | | allows salesman/filing clerk to give their owr allows follow up questions to be asked | | |
| | | - suitable for the small number of salesmen/f | iling clerks working in the fu | niture |
| | | showroom etc. | | |
| | Method | - document search/inspection | | |
| | Explanat | tion - allows close scrutiny of all customer/supplie - allows identification of data required for | | doring |
| | | system | computensed furniture of | Jenné |
| | | - provides information for the design of order | | |
| | | - there is plenty of paperwork available to loo | k at in the filing cabinets etc. | |
| | Method Explanat | - observation | ordoring system works | |
| | Explana | tion - gives first-hand knowledge of how furniture - close supervision of salesmen/ filing clerk er | | ssed |
| | | | - | |
| | | - can observe salesmen and clerks in the | snowroom without disruptin | iy ule |

| Page 3 | Mark Scheme: Teachers' version | Syllabus |
|--------|--|-----------------------|
| | IGCSE – October/November 2011 | Syllabus 0420 |
| | rk per device, one mark per reason must be relev ordering system. | |
| | solution screen ures of furniture/order forms need to be clear | |
| • | e hard disk /DVD writer/CD writer y order forms and pictures of furniture require large | amount of storage spa |
| • | er) printer t out customers' and/or suppliers' order forms | |
| | h screen/tablet alesman to choose item of furniture/enter customer | details/orders |
| | | |

- barcode reader/scanner
- to identify item of furniture when sold/arrives
- keyboard
- to enter customer/order details

(d) One mark for per process, max 3

- Furniture item selection
- Produce customer order
- Update the daily takings
- Produce orders for suppliers
- Check days takings

One mark per input, max 2

- Customer details
- Furniture item choice
- Barcode

One mark per data store, max 2

- Supplier file/database
- Customer file/database
- Orders file/database
- Takings file/database
- Database

One mark per output, max 3

- Picture/Description of furniture item (screen not paper)
- Supplier order (paper)
- Customer order (paper and/or screen)
- Daily takings totals

[8]

[4]



- w2yz
- this checks that non-numeric data is rejected

[6]



- how to carry out specific tasks
- ...such as printing orders/checking takings etc.
- how to do bar code scanning
- ... for selecting an item of furniture to be purchased/when an order arrives from a supplier

etc.

[8]

| Pag | je 6 | Mark Scheme: Teachers | ' version | Syllabus | No. Y |
|-----|-------------|---|----------------------|-----------------------|---------------------------------------|
| | | IGCSE – October/Novem | ber 2011 | 0420 | 120 |
|) | One mark fo | r chosen method | | | ton . |
| , | | for description of that method | | | 10. |
| | | for reasons chosen, must mat | ch method chose | n and be applie | ed to the fun % |
| | retailer. | ···· ······ ···· ··· · · · · · · · · · | | | 40 |
| | Method | - Direct changeover | | | ed to the furt |
| | Description | new system replaces old sys no transition time/overlap | stem immediately | overnight | |
| | Reason | - no need to run 2 systems sig | de by side so less | expensive for f | urniture retailer |
| | | - immediate benefits to furnitu | ire retailer from ne | ew system | |
| | | - less disruptive to showroom | | | |
| | | - more likely to work when f | first installed the | furniture show | room since it will |
| | | have been fully tested first | | | |
| | Method | - Parallel implementation | | | |
| | Description | - operate both systems togeth | ner side by side | | |
| | D | - for a period of time | (. ff /] | | · · · · · · · · · · · · · · · · · · · |
| | Reason | - good for training showroom be compared | statt/salesmen/til | ing clerk since | both systems can |
| | | - if <u>new system</u> fails showroo | om staff/salesmer | , filing clerk car | n use old manual |
| | | system as a back up | | | |
| | Method | - Pilot implementation | | | |
| | | - adopt new system for one su | upplier only | | |
| | 2000.19.000 | - then adopt for others when f | ••• | | |
| | Reason | - can easily re-introduce old m | | oroblems occur | at pilot supplier |
| | | - makes sure system fully wor | ks before adoptin | g for all supplie | rs |
| | Method | - Phased implementation | | | |
| | Description | - part of system (e.g. furniture | database) | | |
| | | - introduced initially for trials | | | |
| | Deser | - if it is OK, gradually introduc | • | • | |
| | Reason | if a problem occurs, showrow stage | om statt/salesmer | n/filing clerk car | n stop using it any |
| | | - allows training and showroo | om staff/salesmen | /filing clerk to g | ain confidence in |
| | | its operation | | | [5] |

- (j) **One** mark per advantage must be relevant to computerised furniture ordering system.
 - much faster response to customer requests
 - less likelihood for ordering/supplier/customer/furniture information to be lost
 - fewer salesmen/filing clerks are now required/less wages need to be paid
 - reduction in paperwork for orders
 - fewer errors in order forms etc.
 - less space needed for large filing cabinets etc.

[3]

| Page 7 | Mark Scheme: Teachers' version | Syllabus V | · · · · · · |
|-----------------|--|----------------------|-------------|
| | IGCSE – October/November 2011 | 0420 | 1230 |
| (k) One ma | rk per limitation must be relevant to computerised | d furniture ordering | system and |
| | | | |
| - at b | usy times salesmen may have to wait for a comp | outer | 1190 |
| - sale | smen and filing clerks will require training | outer | Tide.c |
| - sale - can | | | ,03e.9 |

- (k) One mark per limitation must be relevant to computerised furniture ordering system
 - at busy times salesmen may have to wait for a computer
 - salesmen and filing clerks will require training
 - cannot operate in case of a power cut
 - need to have alternative arrangements for taking orders if computer system fails etc. [2]

(I) Content

One mark for each item up to a maximum of 5 marks

- name of furniture retailer/logo
- space to write customer details
- space to write credit card/payment details -
- search facility box
- help facility -
- email address of customer/password for "my account" -
- tracking of your order facility -
- login/logout/recognise returning customers
- facility/drop down boxes to choose items of furniture -
- place/cancel/amend order/item
- terms and conditions _
- delivery options
- shopping basket
- customer reviews
- accessibility/language options -

Lavout

One mark for any one of these to a maximum of 2 marks

- screen is well laid out e.g. heading at top, good use of tabs/sub-menus, screen not to cluttered or too empty
- order of boxes etc. is logical
- navigation aids visible