UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Advanced Subsidiary Level and GCE Advanced Level

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for the guidance of teachers

9691 COMPUTING

9691/12 Paper 12 (Written Paper), maximum raw mark 90

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.

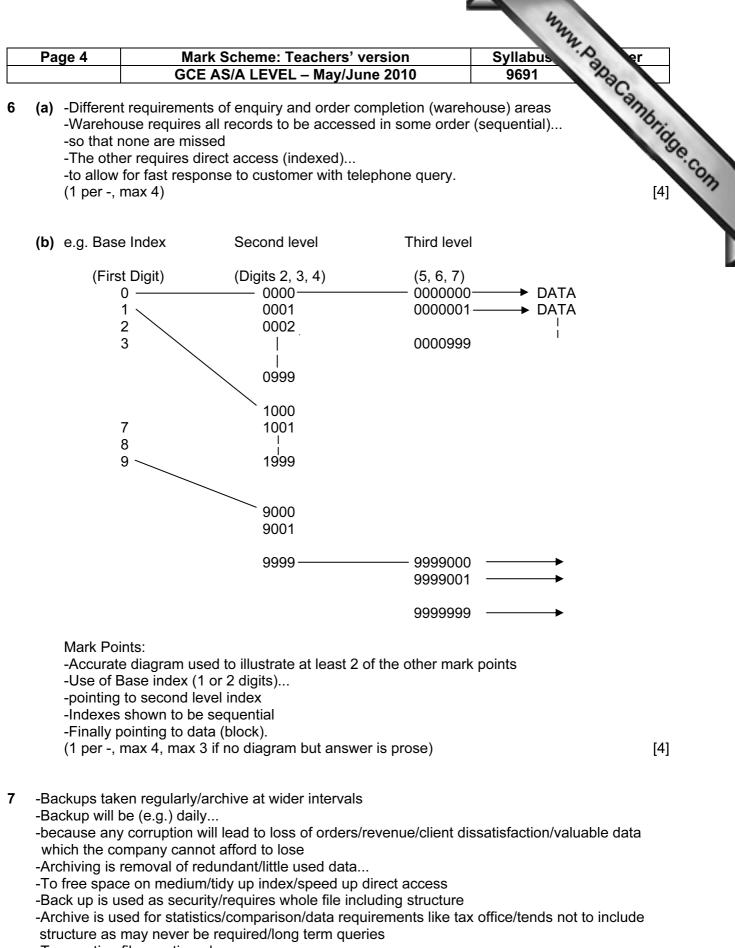
Mark schemes must be read in conjunction with the question papers and the report on the examination.

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

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

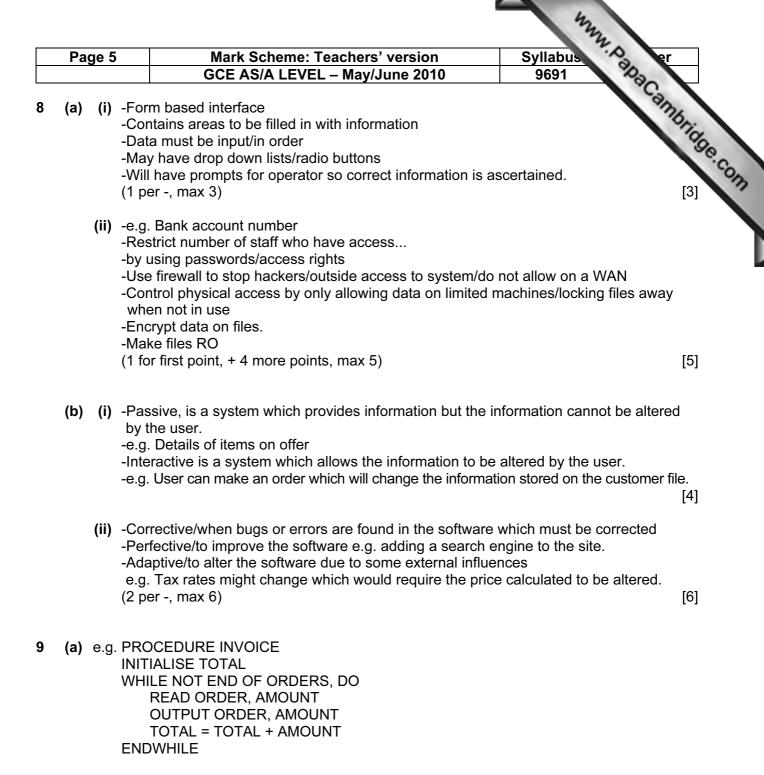
| | | Mark Scheme: Teachers' version | Syllabus er | | | | | |
|------------------|--|--|-----------------------------|-----|--|--|--|--|
| | | GCE AS/A LEVEL – May/June 2010 | 9691 23 | | | | | |
| (a) | Page 2 Mark Scheme: Teachers' version Syllabus GCE AS/A LEVEL – May/June 2010 9691 (a) (i) -Data held in ROM is permanent/the data in RAM can be changed -ROM is not volatile, RAM is volatile -ROM is normally smaller than RAM (1 per -, max 2) (ii) -Boot/Bootstrap program (Not: Bootfile) -Must be available when computer is turned on/protects boot program from corruption | | | | | | | |
| | | ist be available when computer is turned on/protects b | oot program from corruption | [2 | | | | |
| (b) | -N.I.C/to -Modem -Hub or | or wireless/to carry signals from one machine to the o interface between cable and motherboard o or Router/to connect two computers on a WAN switch/to connect computers in a star LAN max 2 -, max 4) | other. | [4 | | | | |
| (a) | -Key boa -Scales/ -Chip an Output: -Screen/ -Buzzer -Printer/f Storage: -Hard dis -CDRW | de reader of some sort/to input bar codes to system a ard or Touch screen/to input code if not readable. /to weigh loose produce sold by weight nd Pin reader/to allow for card payment /to show current state of bill or Speaker/to make audio signal that signifies succes /to print receipt :: isk/fast access and amendable/to store software/stock or DVDRW or flash memory stick/to back up the file max 4 -, only one group to have two -, max 8) | ssful reading | [8] | | | | |
| (b) | -If new s -If stock -Softwar -after ev -When n -Note that | es read whenever goods bought/sold stock then number in stock is incremented sold then number in stock is decremented re checks number in stock against reorder number very transaction number in stock is below reorder level (then order cre hat order has been made, stored as Boolean/until delive to supplier table for automatic ordering/order list prod max 6) | vered | [6 | | | | |
| -by -P -oi | y means of icture store r on flash r PEG forma | era takes picture of array of light sensitive pixels ed in computer memory memory stick/hard disk for computer transfer in at (or other) on screen to allow | | | | | | |
| -D -m | anipulation | n by suitable image editing software. et printer to print on shirt. | | | | | | |

| | Page 3 | | Mark Scheme: Teachers' versionSyllabusGCE AS/A LEVEL – May/June 20109691 | | | | er | |
|-----|---|--|---|--|---|-------------------------|---------|--------|
| (a) | Page 3 Mark Scheme: Teachers' version Syllabus GCE AS/A LEVEL – May/June 2010 9691 a) -Set of rules -to control the transmission of data b) (i) Packet Switching: -Blocks of data find own way through network and -are reordered when they reach the destination | | | | | | ambrida | |
| (b) | (i) | -Bloc -are Circu -Rou -Mes Gene -The -Mes -eac | reordered whe lit Switching te is reserved sage simply n eral points: transmission sage is split ir | for the duration leeds to be record of data from one to (standard siz | gh network and e destination of the data transfe nstructed at destin e node to another o ed) blocks of data destination and blo | ation over a networl | | [5] |
| | (ii) | -Diffi Disa | dvantage: | - | vork not tied up/all stination/message | | | ck [2] |
| (a) | e.g. | | | | | | | |
| | (i) | Prod | uce informatio | on booklets for pa | atients | | | |
| | (ii) | Make | • presentation | s on health topic | cs to audiences, e. | g. schools | | |
| | (iii) | Store | e patient recor | ds | | | | |
| | (iv) | To s | and orders to o | drug companies | | | | [4] |
| (b) | e.g. | | • | of drug container roblem/off-the-s | rs helf software will r | not exist | | [2] |
| (c) | -Da -Do | tabas ctor= | | | e following criteria | | | |



-Transaction file mentioned

(1 per -, max 5)



Mark Points:

-Naming of INVOICE in some way

-Initialise total

-Use of WHILE loop

-Read order details and amount owing, inside loop

-Condition statement for amount owing > 0

-Output order details and amount owing, inside loop

-Cumulative total

-Output running total outside loop

(1 per -, max 4)

[4]

