

Mark Scheme (Results)

June 2008

GCSE

GCSE ICT (1185.2H)

General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Section A 1185.2H/3185.2H		
Question Number	Answer	Mark
1	B	1

Question Number	Answer	Mark
2	A	1

Question Number	Answer	Mark
3	D	1

Question Number	Answer	Mark
4	A	1

Question Number	Answer	Mark
5	C	1

Question Number	Answer	Mark
6	B	1

Question Number	Answer	Mark
7	C	1

Question Number	Answer	Mark
8	C	1

Question Number	Answer	Mark
9	C	1

Question Number	Answer	Mark
10	A	1

Question Number	Answer	Mark
11	A	1

Question Number	Answer	Mark
12	D	1

Question Number	Answer	Mark
13	B	1

Question Number	Answer	Mark
14	D	1

Question Number	Answer	Mark
15	B	1

Question Number	Answer	Mark
16	C	1

Question Number	Answer	Mark
17	B	1

Question Number	Answer	Mark
18	A	1

Question Number	Answer	Mark
19	A	1

Question Number	Answer	Mark
20	D	1

Section B
1185.2H/3185.2H

Question Number	Answer	Mark
1 (a)(i)	Member ID / Member number / ID / ID number / unique number Do not accept if other field names are included in response	1

Question Number	Answer	Mark
1 (a)(ii)	Magnetic stripe / magnetic strip / microchip / chip Do not accept magnetic stripe reader /magnetic bit / magnetic tape / black strip	1

Question Number	Answer	Mark
1 (a)(iii)	Date of visit / Last Visit / date (day) and time Accept if also give class attending Do not accept if other field headings from the database shown are also given Do not accept date unless last visit is also given	1

Question Number	Answer	Mark
1 (b)	OR replace with AND (1) All of remaining text copied correctly (1) Accept the equal sign =	2

Question Number	Answer	Mark
1 (c)(i)	Check by software / computer (1) On data entry (1) To make sure data is acceptable / sensible / reasonable / of the right type (1) Accept a good explanation as an example Do not accept valid / correct	2

Question Number	Answer	Mark
1 (c)(ii)	Length check, 4 characters (1,1) Range check, 0000 / 0001 - 9999 (1,1) Type check, all numbers (1,1) Presence check, to check a number is entered (1,1) Look up check, to check that a number exists in database (1,1)	2

Question Number	Answer	Mark
1 (d)	Extreme, 0000 / 0001 or 9999 (1,1) Typical / normal / sensible / valid, any value 1 to 9998 (1,1) Invalid/ erroneous, any text / >9999 (1,1) Accept incorrect only with sensible example	6

Question Number	Answer	Mark
1 (e)(i)	Flat file Single table /file /data set (1) Duplicate information on each record (1) Takes a long time to enter / edit data (1) Relational Many tables / files / data sets (1) Linked together (1) Create relationship (1) Less duplication of data (1) Faster to add / edit data (1) Faster sort / search (1) Foreign field needed (1) Use primary key to link to 2 nd table (1)	3

Question Number	Answer	Mark
1 (e)(ii)	Unique identifier (1) Uniquely find a record in a table (1) Used to create an index for faster access (1) Primary key on 1 st table (1) Foreign key on 2 nd table (1) Used to link table (1)	2

Question Number	Answer	Mark
2 (a)	<p>For identifying the need to search for members who have not attended a studio for more than one month (1)</p> <p>Use word processor / dtp / database report to produce a letter (1) Standard letter/ template (1) Insert / select - fields / tags / pointers / markers NOT gaps (1) For variable / personal data (accept examples)(1) Data source DB / SS (1) MEMBERS file (1) Merge data source and word processor / Merge fields (1) Mail merge (1)</p> <p>QWC Reasonable English (1) / Good English (2) 1 mark for 2 technical terms, spelt correctly, from: mail merge /merging Spreadsheet / database Word Processing / dtp / desk top publishing Standard letter / template</p>	<p>6</p> <p>QWC 3</p>

Question Number	Answer	Mark
2 (b)(i)	<p>Import / Insert - Clip art / graphics / images / photos /files (1) Manipulate text and graphics (1) Columns (1) Frames / text boxes (1) Text wrap (1) Text flow (1) Backgrounds (1) Borders (1) View whole page (1) Printer friendly view (by default) (1) Colour separated print files (1)</p> <p>Allow the following as this is a different question to 1185 and 3185 2F paper Templates (1) Pages in booklet readily available (1)</p>	<p>3</p>

Question Number	Answer	Mark
2 (b)(ii)	Don't have to print multiple copies / saves paper (1) Reduce number of queries (1) Saves time in distribution (1) Don't have to pay postage (1) May attract non members (1) Easy to update / edit (1) Reduces company's carbon foot print (1)	2

Question Number	Answer	Mark
3 (a)(i)	B5/(C5*C5) (2) B5/C5/C5 (2) Sum(B5/(C5*C5)) (2) Sum(B5/C5/C5) (2) B5/(POWER(C5,2)) (2) B5/C5 ↑ 2 (2) B5/C5 ^2 (2)	2

Question Number	Answer	Mark
3 (a)(ii)	Lookup / v lookup / h lookup (1) If statement (1)	2

Question Number	Answer	Mark
3 (b)(i)	In application software: Select create new macro (1) Name / allocate key strokes (1) Record (1) Set of key strokes / actions taken / carry out task (1) Stop recording (1) In visual basic: Open visual basic (1) Name macro (1) Write sub routine / code (1) Save (1) Allocate key combination (1)	3
	Do not accept if order is illogical	

Question Number	Answer	Mark
3 (b)(ii)	Button (1) Icon on tool bar (1) From drop down menu (1) Key combination (1) Select macro & run (1) Set to run to response to an event (1) Call from another application (1)	2

Section C 1185.2H		
Question Number	Answer	Mark
1 (a)	Different sites / wide geographical area - Allow - Long distances / global / internationally/international or equivalent term (1) Do not accept wide area / large area Telephone / modem / satellite / microwaves / dedicated lines (1)	2

Question Number	Answer	Mark
1 (b)(i)	Web cam (1) Microphone (1) Speakers / headphones (1) Digital video recorder (1) Digital camera (1) Do not accept camera / video recorder	1

Question Number	Answer	Mark
1 (b)(ii)	Saves travelling time (1) Minimise time out of the office (1) Saves costs of travel (1) No problems if bad weather / other restrictions on travelling (1) Meetings can be arranged at short notice (1) Ability to record and review meeting (1)	3

Question Number	Answer	Mark
1 (b)(iii)	Technical failure of equipment (1) Telecommunication /connection issues (1) Speed of connection slow / jerky images / poor sound quality (1) Can't judge body language (1) Cannot sign documents / can't handle products (1) Users inexperienced with system (1) Do not accept responses relating to cost - is about 'using' video conferencing	3

Question Number	Answer	Mark										
1 (c)	<table border="1"> <thead> <tr> <th>Method</th> <th>Advantage</th> </tr> </thead> <tbody> <tr> <td>E-mail (1)</td> <td> Send at any time (1) Recipient doesn't need to be available (1) Multi send (1) Attach files (1) Can save / edit / forward messages (1) </td> </tr> <tr> <td>INTERNET telephone / (accept computer telephone) (1)</td> <td> low cost of calls (1) low costs of equipment (1) real time conversation (1) </td> </tr> <tr> <td>News groups / internet forums / discussion groups(1)</td> <td> Read message at any time (1) Post message at any time (1) </td> </tr> <tr> <td>Intranet / Internal messaging system (1)</td> <td>More secure (1)</td> </tr> </tbody> </table> <p>Do not accept chat rooms / telephone / instant messenger</p>	Method	Advantage	E-mail (1)	Send at any time (1) Recipient doesn't need to be available (1) Multi send (1) Attach files (1) Can save / edit / forward messages (1)	INTERNET telephone / (accept computer telephone) (1)	low cost of calls (1) low costs of equipment (1) real time conversation (1)	News groups / internet forums / discussion groups(1)	Read message at any time (1) Post message at any time (1)	Intranet / Internal messaging system (1)	More secure (1)	4
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Question Number	Answer	Mark
1 (d)(i)	Can do most banking from home / Don't have to travel to bank (1) Can bank 24 hours a day / at anytime / instant transfer of funds(1) Don't have to wait in queues (1) Can access account from anywhere (1)	2

Question Number	Answer	Mark
1 (d)(ii)	<p>Staff</p> <ul style="list-style-type: none"> May lose jobs / redundancy (1) May have to move to Head Office / call centre (1) May need retraining (1) Loss of status / job satisfaction (1) <p>Customers</p> <ul style="list-style-type: none"> May not be able to use a computer / internet (1) May not have access to a computer (1) May not have access to the Internet (1) Would have to move banks if don't have facilities above (1) May be concerned about data security (1) Loss of personal contact (1) <p>Do not accept 'will have to move banks' without valid reason</p>	4

Question Number	Answer	Mark
2 (a)	<ul style="list-style-type: none"> Automatic capture (1) @ set times (1) For a period of time (1) Data stored / recorded (1) For future use (1) 	3

Question Number	Answer	Mark
2 (b)	<ul style="list-style-type: none"> Can monitor over very long periods (1) Monitor 24 hours a day (1) Set up in remote / unpleasant / dangerous / inclement situations (1) Readings very accurate/no human errors/more reliable (1) No requirement for human to be there (1) 	3

Question Number	Answer	Mark
2 (c)	<ul style="list-style-type: none"> If equipment failure, data can be lost / not collected(1) If equipment failure, can take a long time to fix (1) Equipment can be expensive (1) Errors only picked up when data is examined (1) 	1

Question Number	Answer	Mark
2 (d)	<ul style="list-style-type: none"> Logging period (1) Logging interval (1) Type of sensor (1) 	2

Question Number	Answer	Mark
2 (e)	<p>Analysed Database / spreadsheet (1) Comparison by months in year (1) Comparison by months / seasons in different years (1) Comparison of different weather elements (1) Data manipulated in spreadsheet (1) Calculations / statistical analysis (1)</p> <p>Presentation Charts / graphs (1) Tables (1) Written Report (1)</p>	6

Question Number	Answer	Mark
2 (f)(i)	Analogue - Digital Converter / ADC (1)	1

Question Number	Answer	Mark
2 (f)(ii)	<p>(Sensor) measures analogue signal (1) Analogue - continuous / variable (1) Signal converted to digital (1) Computers need digital input /so computer can understand (1) Digital - pulses of electricity (1) Digital - on/off, 0/1 (1)</p>	2

Question Number	Answer	Mark
3 (a)(i)	<p>Suitable media, DAT tape, DAT drive / external hard drive / mirror disc / second server / remote backup (1) Regular day / week / month / time (1) Do not accept 'regularly' 'without time period'</p> <p>Media labelled (1) Schedule when network not in use (1) Son, Father, Grandfather, good explanation (1,1) Backup checked when complete (1) Media kept in a safe place away from the server (1)</p>	6

Question Number	Answer	Mark
3 (a)(ii)	<p>Allocating / updating usernames and passwords (1) Security /access rights and permissions / DPA(1) Installing / maintaining software and hardware (incl. peripherals) / making sure the network is working properly(1) Maintaining / upgrading software, OS, anti-virus (1) Internet filtering (1) Archiving (1) Monitoring system performance (1)</p>	3

Question Number	Answer	Mark
3 (b)(i)	Open email software / create new email (1) Recipient name / email address (1) Subject (1) Write message (1) Select attachment tool not paperclip (1) Browse / search for photo file not find unless give 'in my documents' or similar (1) Select photo /file (1) Attach or copy / paste file (not photo) (1) Send (1) QWC Reasonable English (1) / Good English (2) 1 mark for 2 technical terms, spelt correctly, from: Browse Attach / attachment Recipient / email address	6 QWC 3

Question Number	Answer	Mark
3 (b)(ii)	Send to mail server / ISP (1) Sent using modem /telephone line /broadband / telecommunication system(1) Via Internet (1) To recipient's mail server / ISP (1) To recipient's inbox (1)	4

Question Number	Answer	Mark
3 (c)(i)	Many people using Internet (1) Web site / search engine busy (1) Type of modem (1) Speed of connection (1) Type of connection - dial up & broadband (1) Poor search criteria (1) No of links / hits (1) Size of computer cache (1)	2

Question Number	Answer	Mark
3 (c)(ii)	Add additional keywords (1) Restrict search to UK sites (1) Use different search engine (1) Advanced Search (1)	2