Mark Scheme (Results)

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GCSE Information and Communication Technology (1185/3185) Paper 2F

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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.

3185 /1185 F		
SECTION A		
Question Number	Answer	Mark
1	B	1

Question Number	Answer	Mark
2	A	1

Question Number	Answer	Mark
3	C	1

Question Number	Answer	Mark
4	C	1

Question Number	Answer	Mark
5	D	1

Question Number	Answer	Mark
6	A	1

Question Number	Answer	Mark
7	C	1

Question Number	Answer	Mark
8	C	1

Question Number	Answer	Mark
9	B	1

Question Number	Answer	Mark
10	A	1

Question Number	Answer	Mark
11	C	1

Question Number	Answer	Mark
12	D	1

Question Number	Answer	Mark
13	C	1

Question Number	Answer	Mark
14	D	1

Question Number	Answer	Mark
15	B	1

Question Number	Answer	Mark
16	A	1

Question Number	Answer	Mark
17	D	1

Question Number	Answer	Mark
18	D	1

Question Number	Answer	Mark
19	A	1

Question Number	Answer	Mark
20	A	1

FOUNDATION SECTION B		
Question Number	Answer	Mark
1(a)	Any from range B2 - E10	1

Question Number	Answer	Mark
1(b)	D5	1

Question Number	Answer	Mark
1(c)	B9	1

Question Number	Answer	Mark
1(d)(i)	=B2+B2*0.1 (2,0) =B2+B2*10% (2,0) =B2+B2/100*10 (2,0) =B2+B2*10/100 (2,0) =B2*1.1 (2,0) =B2*110% (2,0) =B2/100*110 (2,0) =B2*110/100 (2,0) =B2+(B2/10) (2,0) =B2+B2/10 (2,0) **Allow** without = with SUM if it works if additional brackets included and the formula works	2

Question Number	Answer	Mark
1(d)(ii)	Replication (1) Fill down (1) NOT copy and paste	1

Question Number	Answer	Mark
1(e)	Highlight (1) B2:B10 / Column B (1) Format (1) Select currency (1) Select 2 dec pl (1) Select £ sign (1)	2

Question Number	Answer	Mark
1(f)	**Method 1:** Open report document (Must clearly be the specific document) (1) Open spreadsheet (1) Click <u>Insert</u> (1) <u>Select</u> the file / chart (1) Position chart(1) <u>Edit</u>/<u>manipulate</u>(1) <u>Re-size</u>(1) <u>Crop</u>(1) **Method 2:** Open report document (Must clearly be the specific document) (1) Open spreadsheet (1) <u>Select</u> / click on / <u>highlight</u> the chart (1) <u>Copy</u> and <u>paste</u> (1) Position chart (1) <u>Edit</u>/<u>manipulate</u> (1) <u>Re-size</u>(1) <u>Crop</u> (1)	4
	QoWC Reasonable English (1) / Good English (2) **1 mark** for 2 technical terms, spelt correctly, from: Technical terms underlined Good English for prose: Consistency – capitals and full stops < 3 spelling mistakes Good English for bullet points: Consistency – lower / upper at start & with / without full stops.	3

Question Number	Answer	Mark
2(a)	4 (1) 1 *Given in question* 5 (1) 3 (1) 2 (1)	4

Question Number	Answer	Mark
2(b)(i)	Automatic stock control (1) Records sales / Up to date stock information (1) Tells when stock needs reordering(1) Automatic reordering / Saves time re-ordering manually (1) Finds trends in customer purchases (1) Fewer input errors (1) Faster data entry (1) Fewer stock check errors (1) Fewer staff needed (1) *Allow*: automatically works out the change (1)	2

Question Number	Answer	Mark
2(b)(ii)	Itemised receipt (1) Proof of purchase (1) Quicker transaction process/less time spent queuing (1) Accurate bill / correct change (1)	2

Question Number	Answer	Mark
3(a)	Desktop Publishing/DTP/Word Processing (1)	1

Question Number	Answer	Mark
3(b)		6

Feature	Use
Borders (1)	Specify where (eg around book details) (1)
Enhance (B/U/I) (1)	specified text (eg title / heading / key info etc) (1)
Font colour (1)	specified text (eg title / heading / etc) (1)
Insert/add graphics /photo / clipart / image / picture (1)	Cover of book / author's photo / logo / bookstore / books (1)
Line/paragraph spacing (1)	Specify text (eg body text) (1)
Background (1)	Watermark / picture (1) **Not colour**
Justification / Centre (1)	title (eg Bobbies Bookstore) / fully justified text (eg body text) (1)

Allow reversal of feature and use.

Allow sensible use without feature

Question Number	Answer	Mark
3(c)	Scanner/Digital Camera / camera (1) Eg picture / photograph (of author or book)(1)	2

Question Number	Answer	Mark
3(d)	Spell check (1) Grammar check (1) Proof reading (1) Verification (1) NOT validation	2

Question Number	Answer	Mark
4(a)	24/7 (1) Don't need to leave home/don't need to travel to the shop / access from anywhere(1) Know instantly if in stock (1) Immediate confirmation (1) Buying online can be cheaper / special offers (1) Comparing prices (1) Easier to browse (1) NOTE is about online ordering NOT web site in general	2

Question Number	Answer	Mark
4(b)	Reduction in staff /offices / shops /overheads (1) Website does not need staffing(1) Fewer errors in data entry (as entered by customers) (1) Wider customer base (1) Statistical analysis (1) Can receive orders 24/7 (1)	3

Question Number	Answer	Mark
4(c)(i)	Open email software (1) Template / pre-prepared email set up (1) Open email / open template email (1) Recipient email address (1) Subject (1) Write message / use pre-prepared message / insert details (1) Send / sent email automatically(1) NB If included the first and last points must be in the correct order to gain the marks. Description of an automated process.	3

Question Number	Answer	Mark
4(c)(ii)	Printer	1

Section C

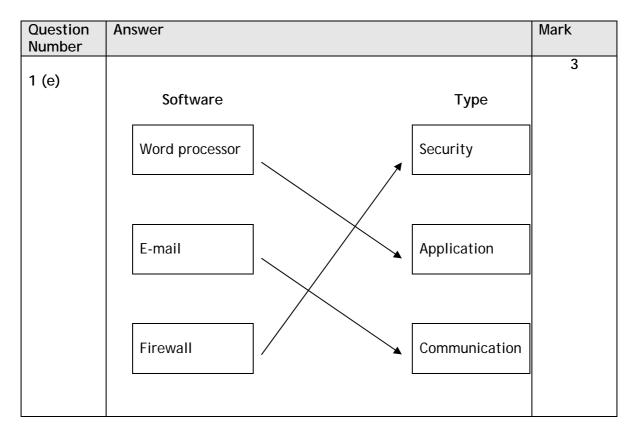| Question Number	Answer				Mark
1 (a)	Device	Input	Output	Storage	4
	Printer		X		
	Graphics tablet	X			
	Tracker ball	X			
	Hard disk drive			X	

Question Number	Answer	Mark
1 (b)	**Any 1 of:** Touch screen (1) Vibrating joy stick / interactive handset (1) Interactive white board or similar (1) **Not** a data projector	1

Question Number	Answer	Mark
1 (c) (i)	Megabyte (1)	1

Question Number	Answer	Mark
1 (c) (ii)	read only memory (1)	1

Question Number	Answer	Mark
1 (d) (i)	Microphone (1) Midi keyboard (1)	1

Question Number	Answer	Mark
1 (d) (ii)	Speakers (1) Headphones (1)	1

Question Number	Answer	Mark
1 (e)	Software ... Type Word processor → Application E-mail → Communication Firewall → Security	3

Question Number	Answer	Mark
1(f)	Program (1)	1

Question Number	Answer	Mark
1(g)	Graphical User Interface / GUI (1) Command line driven (1) **Allow** command (1)	2

Question Number	Answer	Mark
2 (a)	**Ease of use** - any 3 of: **Command buttons (1)** **Sensible field lengths (1)** Coding (1) Scroll bars (1) Tick box (1) Radio button (1) Drop down menus (1) Personal information - **any 2 of**: Title (1) Post Code (1) Contact No. (Allow only 1) (1) E-mail address (1) Additional names (Allow only once) (1) Passport number (1) Country / nationality (1) Flight Information – **Any 3 of**: Destination To/From (1) Flight single / return (1) Flight class (1) Number of people / Age bands (1) Date(s) of travel (1) Flexibility of dates (1) **Do not allow** Date **Allow** ease of use marks even if the information is not required	8

Question Number	Answer	Mark
2(b)	7	1

Question Number	Answer	Mark
2 (c)(i)	Customer ID	1

Question Number	Answer	Mark
2(c)(ii)	Uniquely identify a record (1) May be two customers with the same name / address (1) The only field which is unique (1)	2

Question Number	Answer				Mark
2(d)	Field Name	Data Type	Field Length		6
	Surname	Text / string	15		
	Date Booked	Date Date/Time	8		
	New Customer	Logical/Boolean	1		
	Customer ID	Text / string Alphanumeric **Not** text & number	5		

Question Number	Answer	Mark
2(e)	Search / query / filter (1) **Do not accept** find Sort (1) Create reports (1) Can set validation rules (1) Mail merge (1) Management Information (1) **Not** add / delete / change – they are all editing.	2

Question Number	Answer				Mark
3(a)	**Situation**	**WAN**	**LAN**		4
	Primary School		X		
	Internet	X			
	Small Business		X		
	Cash Machines (ATMs)	X			

Question Number	Answer	Mark
3(b)(i)	Star	1

Question Number	Answer	Mark
3(b)(ii)	A Terminal or workstation (1) B Server or Hub (1)	2

Question Number	Answer	Mark
3(c)	Bus (1) allow Line	1

Question Number	Answer		Mark
3(d)	Topology 1 (STAR) **Advantage**	Cable failure doesn't affect all workstations	1
		Less likely to slow down if many users	
		Workstation can be added without closing network / easy to add extra workstations	
	Disadvantage	Needs a lot of cable / expense of cable	1
	Topology 2 (BUS) **Advantage**	Small amount of cable	1
		If branch cable breaks rest of network unaffected	
	Disadvantage	Lots of users can make the network slow / lots of data can make the network slow	
		Failure in central cable stops all workstations	1

Question Number	Answer	Mark
3(e)	Share documents / files / folders / data (1) Share peripherals / printers / scanners (1) Security can be centrally managed (1) Backup can be centrally managed (1) Files (to share) can be uploaded centrally (1) Software installed easily / faster / centrally (1) Can use any workstation / hotdesking (1) Communicate with other workstations (1) Monitor / control users (1) Only 1 internet connection needed (1) Email without internet connection / via intranet (1) **Allow** Terminals cheaper than stand-alones (1) **Not** share software	2

Question Number	Answer	Mark
3(f)	Cost of installation (1) Need for network manager / technician (1) Increased need for security (1) Performance eg lots of users / sharing peripherals (1) Reliance on server (1) Users need to be trained (1) Viruses more likely / spread quickly (1) Accounts can be hacked by other users (1) **Not just** need for security – should be increased risk **Not** Increased risk of hacking from outside	1

Question Number	Answer	Mark
4(a)	Develops understanding of controls (1) Develops confidence (1) Safer* -if you crash no one is injured or fatalities (1) Safer must be qualified Weather conditions can be varied (1) Landing conditions can be varied (1) Able to deal with range of problems (1) Crashing planes – costs of equipment etc (1) Simulator cheaper to run than plane /Running costs lower than fuel costs (1) Better for the environment/carbon footprint (1) Can train in bad weather (1) Performance can be evaluated (1) QWC **1 mark** for reasonable English **1 mark** for good English **1 mark** for spelling.	4

Question Number	Answer	Mark
4(b)	You know you are not going to get hurt so you may take unrealistic chances and not have enough confidence / over confident (1) You cannot simulate/predict every possibility (1)	2

Question Number	Answer	Mark
4(c)	Joystick (1) Microphone (1) Control panel button (1) Pedals (1) Levers (1)	1

Question Number	Answer	Mark
4(d)	Speakers (1) Monitor / screen (1) Headphones (1) Lights (1) LEDs (1)	1

Question Number	Answer	Mark
4(e)	Computer games (1) Experiments (1) Weather forecasting (1) Economic models/forecasts (1) Virtual reality (1) **Not** other types of training simulators	2