



Mark Scheme (Results)

Summer 2026

Pearson Edexcel International Advanced Level
In Information Technology (WIT11)
Paper 01

Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications are awarded by Pearson, the UK's largest awarding body. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at www.edexcel.com or www.btec.co.uk. Alternatively, you can get in touch with us using the details on our contact us page at www.edexcel.com/contactus

Pearson: helping people progress, everywhere

Pearson aspires to be the world's leading learning company. Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at:

www.pearson.com/uk

Summer 2026

Question Paper Log Number P79985A

Publication Code WIT11_01_2606_MS

All the material in this publication is copyright

© Pearson

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.

Question number	Answer	Additional guidance	Mark															
1(a)(i)	Award one mark for each two correct cells: <table><tr><th>Software</th><th>System</th><th>Application</th></tr><tr><td>Word processing</td><td></td><td>✓</td></tr><tr><td>Firewall</td><td>✓</td><td></td></tr><tr><td>Device driver</td><td>✓</td><td></td></tr><tr><td>Spreadsheet</td><td></td><td>✓</td></tr></table>	Software	System	Application	Word processing		✓	Firewall	✓		Device driver	✓		Spreadsheet		✓	Do not mark any row that has more than one tick	2
Software	System	Application																
Word processing		✓																
Firewall	✓																	
Device driver	✓																	
Spreadsheet		✓																

Question number	Answer	Additional guidance	Mark
1(a)(ii)	The only correct answer is A B is not correct because open systems is the term used to describe the 7-layer Open Systems Interconnection (OSI) Model C is not correct because patented is a method of protecting intellectual property D is not correct because proprietary is the term used to describe closed-source software that is only licensed for use		1

Question number	Answer	Additional guidance	Mark
1(b)(i)	Award one mark for any of the following: • No need to buy/expand local devices/secondary storage (1) • A small amount of (cloud) storage is (usually) free of charge (1) • No need to employ staff to manage local storage (1) • No need to pay for physical space for servers (1)		1

Question number	Answer	Additional guidance	Mark
1(b)(ii)	Award up to two marks for a linked description such as: • Use a (strong) password (1), that consists of a mixture of letters, numbers and symbols/ a fixed number of characters (8-12 characters) (1) • Store her password in a vault/ (password) manager (1) that uses robust encryption/multi-factor authentication (1) • Encrypt the data (1), so that only someone with the key can understand/read it (1) • Use multi-factor authentication (1) that uses two different mechanisms, such as a code sent by text/email. (1) • Use biometrics (1) such as face, voice, fingerprint (1)	Both parts must make sense together.	2

Question number	Answer	Additional guidance	Mark
1(b)(iii)	Award one mark for any of the following: • An internet connection may not be available to access the data (1) • Data on the cloud may have been deleted. (1) • Having all documents available on her device may be more convenient (1)		1

Question number	Answer	Additional guidance	Mark
1(c)	Award two marks for a linked explanation such as: • Find courses/training (1) in order to improve her knowledge (1) • Find help/documentation/tutorials (1) in order to learn a new skill (1) • Communicate with other professionals (1) in order to find answers to specific questions (1) • Find job vacancies/advertisements (1) in order to change jobs/negotiate salaries (1) • Enhance her profile (1) by answering questions in the community (1)	Both parts must make sense together, but can be from different marking points Do not award leisure/social activities	2

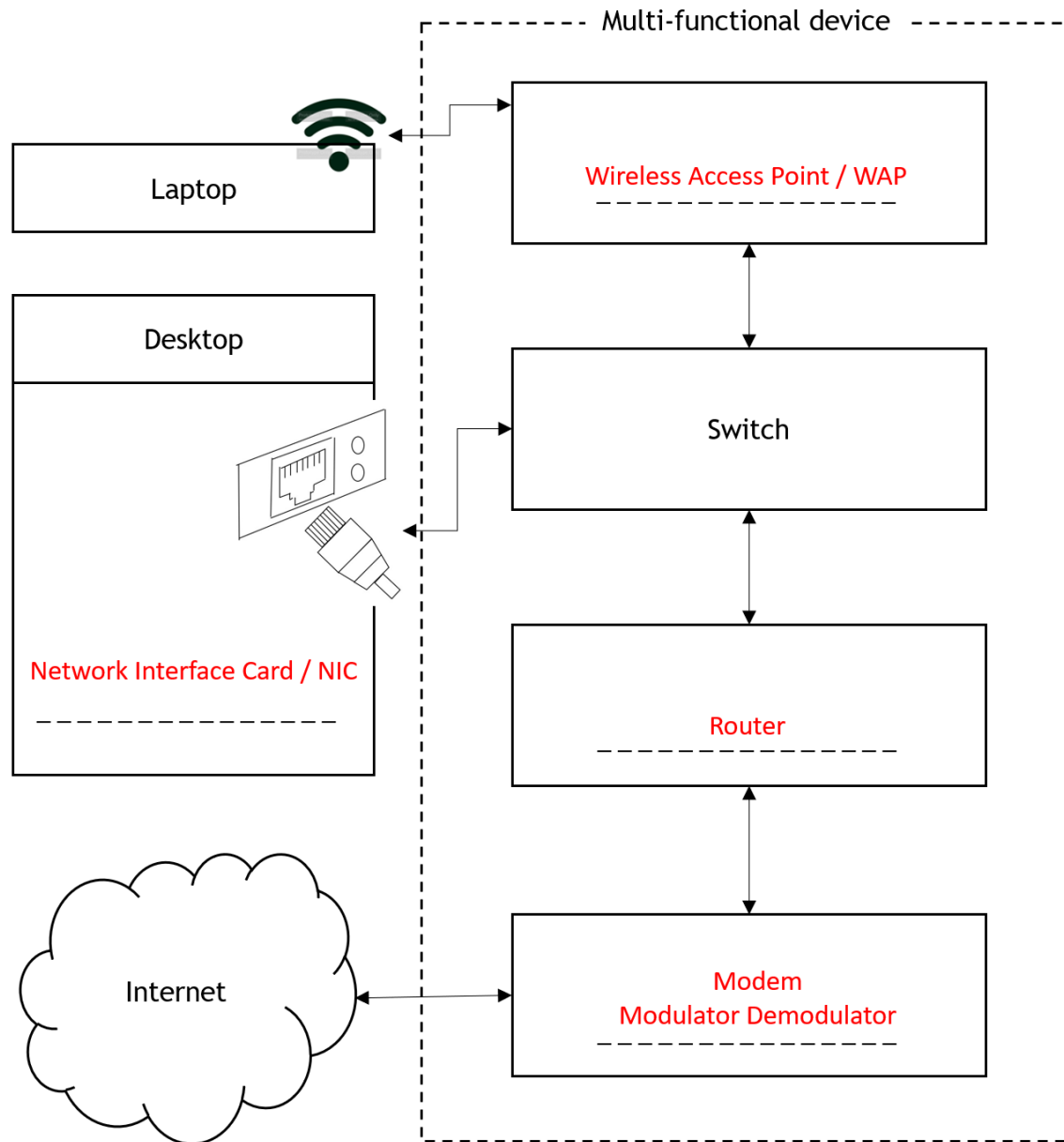
Question number	Answer	Additional guidance	Mark
1(d)	Award one mark from each section up to a maximum of two marks: • She can find directions/quickest route (1), because she can use the navigation aids (1) • Emergency services can locate her (1), because they can use the GPS function (1) • Weather information will be relevant to her (1), because apps filter by location (1) • She can find services local/near to her (1), because apps can use location data to make suggestions (1) • She can calculate her travel expenses (1), because apps can track mileage/distances (1) • She can track her phone (1) if it is lost/stolen (1) • Location awareness may suggest 'similar places' (1) when a location is visited (1) • The device settings could be changed (1) based on location geofencing / location-based routines / GPS (1)	Both parts must make sense together, but can be from different marking points	2

Question number	Answer	Additional guidance	Mark
2(a)	The only correct answer is B <i>A is not correct because electricity travels over copper wire.</i> <i>C is not correct because microwaves travel through the air.</i> <i>D is not correct because radio waves travel through the air.</i>	Light is the only correct answer	1

Question number	Answer	Additional guidance	Mark
2(b)	Award up to two marks for a linked description such as: The internet is a (global) system of interconnected device networks (1), whereas the world wide web is a collection of information/(web) pages (residing on servers) (1)	Allow 'infrastructure' in place of interconnected networks. Do not award a circular response, i.e. where internet is used to define WWW and WWW is used to define internet	2

Question number	Answer	Additional guidance	Mark
2(c)	Award up to two marks for a linked description such as: Static IP addresses never change / remain the same each time a device connects to a network (1), whereas dynamic IP addresses change each time a device reconnects to a network (1)		2

Question number	Answer	Additional guidance	Mark
2(d)	Award one mark for each correct box: Furthest left (1): • Network Interface Card • NIC Topmost (1): • Wireless Access Point • WAP First after Switch (1): • Router Bottom (1): • Modem • Modulator and demodulator	Allow Ethernet for Network Interface, but the concept of a card/device must be present. Do not award Ethernet alone, as that is a protocol. Do not award mark where more than one response is in a box	4



Question number	Indicative content	Additional guidance	Mark
2(e)	Characteristics of an open network - Usually a wireless network that is unsecured, but could be wired - A network that can be used by any device within signal range How an open network is a threat to Frida - Interception of data - Transfer of sensitive data (banking details, identification, login details) - Flawed security settings (Open ports, firewall) on the joining device The action Frida could take - Choose not to connect to the open network - Do not ever connect to the open network / have internet access installed in the apartment - Use cellular data on a mobile device instead - Set up a hotspot with a cellular device and connect other devices through it - Use of alternative media (Starlink) - Choose to connect to the open network - Ensure the websites used are encrypted (lock symbol, HTTPS) - Use a virtual-private network (VPN)		6

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-2	- Demonstrates limited knowledge and understanding, some of which may be inaccurate. - Applies understanding with limited coherence to produce a response that lacks development.
Level 2	3-4	- Demonstrates knowledge and understanding, which is mostly relevant and may include some inaccuracies. - Applies understanding to make some coherent connections and a partially developed response.
Level 3	5-6	- Demonstrates accurate and relevant knowledge and understanding throughout. - Applies understanding coherently to produce a fully developed response.

Example

An open network is unsecured and wireless. Frida can connect to it without a password, as long as she is within signal range and her device can find it.

Since the network is unsecured, there is a possibility that any data Frida transfers using it can be intercepted. This data could include her banking details or other personal and sensitive information. She could have her identity stolen, if this happens. If she has left her own device unsecured, such as not installing a good firewall and keeping it on, then her device could be connected to via the open network. This could lead to malware being installed on her device, such as ransomware.

Frida should really not connect to the open network at all. She could use the cellular network on her phone instead, which should be safer. If she does choose to connect to the open network, then she should not transfer any secure data. She should also ensure that any data transferred is encrypted.

Question number	Answer	Additional guidance	Mark
3(a)	Award up to two marks for linked description, such as: - Timers (1) can be used to operate the lights automatically on a schedule (1) - Sensors (1) can be used to operate the lights when people leave/arrive (1) - Sensors (1) can be used to control the brightness of the light based on available (ambient) light (1) - Smart controllers (1) can learn owners' habits and adjust lights to fit (1) - An app on a smartphone (1) can be used to turn the lights on/off (1)	Both parts must make sense together, but can be from different marking points Allow name/description of sensors	2

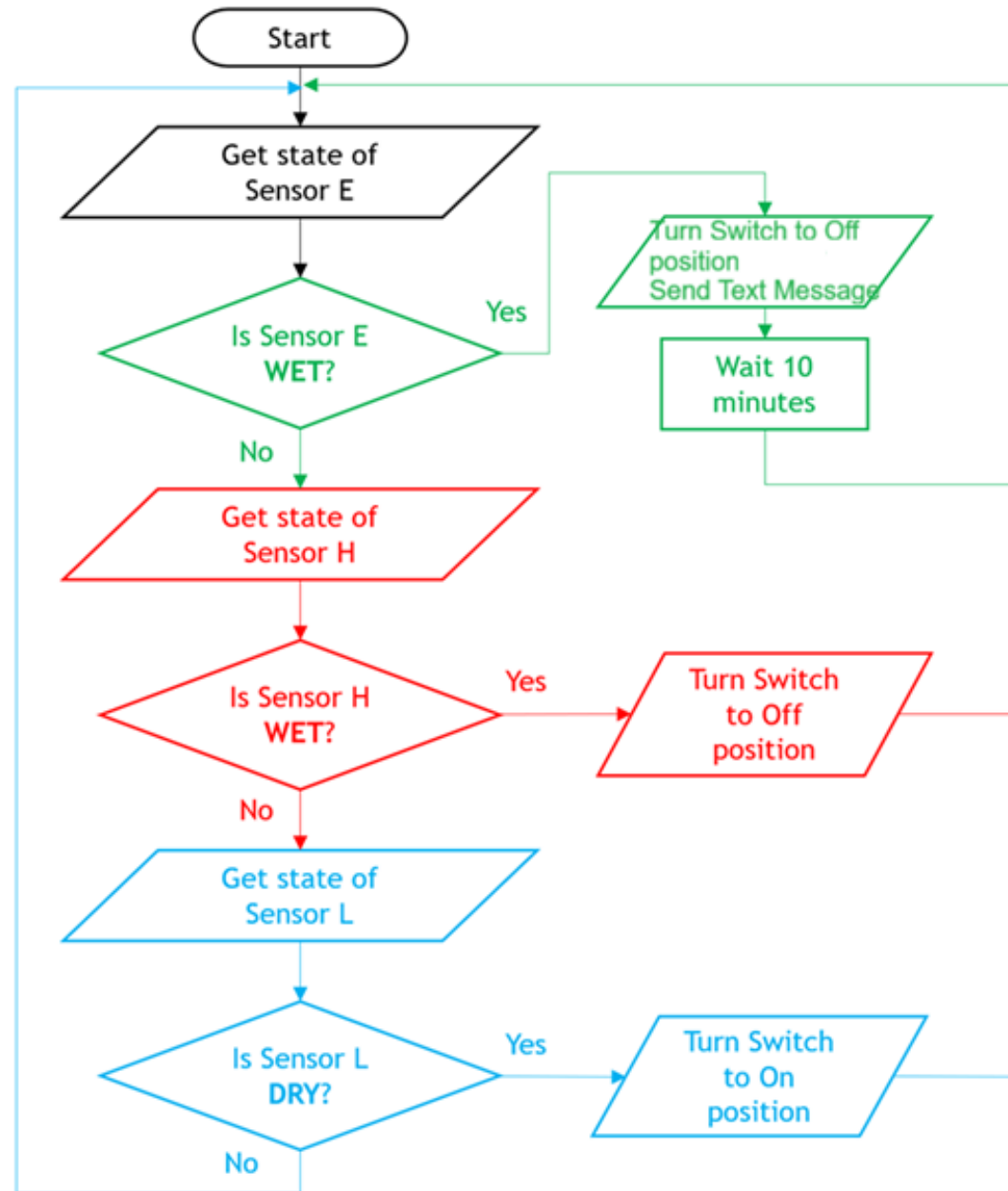
Question number	Answer	Additional guidance	Mark
3(b)	Award one mark for any of the following: - Put the function keys in the correct/numeric order (1) - Put the escape key in the conventional/correct place/top-left hand corner (1) - Put the arrow keys in the conventional/correct/lower-right corner (1) - Put the Insert/Home/Page Up/Page Down/Delete/End key on the right-hand side (1) - Rearrange the arrow keys into the conventional/correct shape (1) - Add PrintScreen/SysRq/Scroll Lock/Pause/Break key (1) - Swap the @ and " keys / add a £ (1)	Allow: Put the number pad on the right-hand side, although left-handed keyboards exist	1

Question number	Answer	Additional guidance	Mark																
3(c)	Award one mark for each correct cell: <table><tr><th>Layer</th><th>Function</th></tr><tr><td>Application</td><td>Implements protocols for specific applications, such as web browsers and email clients</td></tr><tr><td>Presentation</td><td>Encodes/translate/encrypts/compresses/converts data/making data readable (1)</td></tr><tr><td>Session (1)</td><td>Establishes a connection between devices and keeps it open during data transmission</td></tr><tr><td>Transport</td><td>Converts data into segments and adds sequence numbers</td></tr><tr><td>Network (1)</td><td>Converts segments into packets, adds source and destination addresses and determines the best route</td></tr><tr><td>Data link</td><td>Converts packets into frames / add Media Access Control (MAC) addresses / handles flow and error control (1)</td></tr><tr><td>Physical</td><td>Converts frames into bits (0, 1) and places them on the physical medium, such as copper cable</td></tr></table>	Layer	Function	Application	Implements protocols for specific applications, such as web browsers and email clients	Presentation	Encodes/translate/encrypts/compresses/converts data/making data readable (1)	Session (1)	Establishes a connection between devices and keeps it open during data transmission	Transport	Converts data into segments and adds sequence numbers	Network (1)	Converts segments into packets, adds source and destination addresses and determines the best route	Data link	Converts packets into frames / add Media Access Control (MAC) addresses / handles flow and error control (1)	Physical	Converts frames into bits (0, 1) and places them on the physical medium, such as copper cable	Allow conflation of terms: • Message • Data • Payload • Segment • Packet • Frames Where the term 'address' is used, it must be qualified with source/destination/MAC Do not award 'source address' or 'destination address' for MAC address	4
Layer	Function																		
Application	Implements protocols for specific applications, such as web browsers and email clients																		
Presentation	Encodes/translate/encrypts/compresses/converts data/making data readable (1)																		
Session (1)	Establishes a connection between devices and keeps it open during data transmission																		
Transport	Converts data into segments and adds sequence numbers																		
Network (1)	Converts segments into packets, adds source and destination addresses and determines the best route																		
Data link	Converts packets into frames / add Media Access Control (MAC) addresses / handles flow and error control (1)																		
Physical	Converts frames into bits (0, 1) and places them on the physical medium, such as copper cable																		

Question number	Answer	Additional guidance	Mark
3(d)	Award two marks for a linked explanation such as: • People may decide not to attend mass events/protests/rallies/voting locations (1) because CCTV images can be used to identify them (1) • People's private lives can be observed (in detail) (1) because their movements can be tracked by the cameras (1) • People may alter their behaviour/self-censor what they say (1) because their actions may be recorded on CCTV (1)	Both parts must make sense together, but can be from different marking points	2

Question number	Answer (See sample flowchart on the next page)	Additional guidance	Mark
3(e)	Award one mark for any of the following to a maximum of six marks: • Sensor E (1) Award one mark for turning the switch off if the sensor is wet, sending a text message and waiting 10 minutes ○ If it is WET ▪ Turn switch off ▪ Send a text message ▪ Wait 10 minutes ▪ Loop back to start ○ If it is DRY ▪ Fall through to next instruction • Sensor H (1) Award one mark for turning the switch off if the sensor is wet ○ Get Sensor H value ○ If it is WET ▪ Turn switch off ▪ Loop back to start ○ If it is DRY ▪ Fall through to next instruction • Sensor L (1) Award one mark for turning the switch on if the sensor is dry ○ Get Sensor L value ○ If it is DRY ▪ Turn switch on ▪ Loop back to start ○ If it is WET ▪ Loop back to start		6

	- Fully functional solution (1) - Must not have a stop symbol - Must be tested in the most efficient order (Sensor E, Sensor H, Sensor L) - Turning off switch (as part of emergency sensor, green logic) must come before the wait process - Must have correct states (WET, DRY) for each sensor Use of notation (regardless of logic) - Symbols (Appendix 7) used correctly throughout (1) - Parallelogram used for most inputs and outputs - Diamond used for most decisions - Symbols (Appendix 7) used correctly throughout (1) - Fully connected, no hanging symbols - One in arrow and one out arrow (except decision) - One in arrow and two out arrows (decision only) - Decision has Yes/No or Dry/Wet labels	Bullet 4 is awarded when the order of sensors is E, H, and L. That is the order of severity (worst to least) and generates the fewest passes through the loop. Starting with sensor E is given in the question. Bullets 5 and 6 (notation) are awarded independent of Bullet 4 (fully functional)	
--	---	---	--



Question number	Answer	Additional guidance	Mark
4(a)	The only correct answer is C <i>A is not correct because structure is a description of how to store data</i> <i>B is not correct because type is a description of how to store/process data</i> <i>D is not correct because validated is data that adheres to the rules for suitability for processing</i>		1

Question number	Answer	Additional guidance	Mark
4(b)	Award up to two marks for a linked description such as: (Programming) code written in JavaScript/HTML(5) (1), that is executed/interpreted in the browser/plugin (1)		2

Question number	Answer	Additional guidance	Mark															
4(c)	Award one mark for each correct cell: <table><tr><th>Table</th><th>Key</th><th>Field names</th></tr><tr><td>tbl_type</td><td>Primary</td><td>typeID (1)</td></tr><tr><td>tbl_fabric</td><td>Primary</td><td>mfgName, mfgDesign (1)</td></tr><tr><td>tbl_order</td><td>Foreign composite</td><td>mfgName, mfgDesign (1)</td></tr><tr><td>tbl_order</td><td>Foreign not composite</td><td>typeID / makerID (1)</td></tr></table>	Table	Key	Field names	tbl_type	Primary	typeID (1)	tbl_fabric	Primary	mfgName, mfgDesign (1)	tbl_order	Foreign composite	mfgName, mfgDesign (1)	tbl_order	Foreign not composite	typeID / makerID (1)	Row 2 and row 3 must have both fields of the composite key. Where a cell has more than the required field names, mark from the top-left corner of the cell. Do not award non-existent field names	4
Table	Key	Field names																
tbl_type	Primary	typeID (1)																
tbl_fabric	Primary	mfgName, mfgDesign (1)																
tbl_order	Foreign composite	mfgName, mfgDesign (1)																
tbl_order	Foreign not composite	typeID / makerID (1)																

Question number	Answer	Additional guidance	Mark				
4(d)	Award one mark for any of the following up to a maximum of four marks: <table><tr><td>Figure 6</td><td><pre>SELECT mfgName, designName FROM tbl_cups WHERE numInStock < 10 (1) AND stockPrice > 12.00 (1)</pre></td></tr><tr><td>Figure 7</td><td><pre>SELECT mfgName, COUNT (mfgName)/(*) (1) FROM tbl_cups GROUP BY mfgName (1)</pre></td></tr></table>	Figure 6	<pre>SELECT mfgName, designName FROM tbl_cups WHERE numInStock < 10 (1) AND stockPrice > 12.00 (1)</pre>	Figure 7	<pre>SELECT mfgName, COUNT (mfgName)/(*) (1) FROM tbl_cups GROUP BY mfgName (1)</pre>	Mark the first response from the left. If the clauses are correct, but in the wrong order in the right row, award one mark only. For row 1, the relational tests can be on either side of the AND Allow transcription errors. Brackets must be accurate. Ignore case. Ignore inclusion or omission of colon at end of statement (;). Allow: • Equivalent relational expressions • 12 for 12.00 • >= for > • <= for <	4
Figure 6	<pre>SELECT mfgName, designName FROM tbl_cups WHERE numInStock < 10 (1) AND stockPrice > 12.00 (1)</pre>						
Figure 7	<pre>SELECT mfgName, COUNT (mfgName)/(*) (1) FROM tbl_cups GROUP BY mfgName (1)</pre>						

Question number	Answer	Additional guidance	Mark
5(a)	Award one mark for each of the following up to a maximum of two marks: • 1024×1024, anywhere (1) • Completely correct response (1) Examples: $\frac{Q}{1024 \times 1024}$ $Q \div (1024 \times 1024)$ $Q \div 1024 \div 1024$	Award equivalent expressions: • 1024×1024 • 1024^2 • $2^{10} \times 2^{10}$ • 2^{20} • 1048567 Do not award: $Q \div 1024 \times 1024$ As a completely correct response.	2

Question number	Answer	Additional guidance	Mark
5(b)	Award one mark for each of the following up to a maximum of two marks: • $71 \times 1000 \times 1000$, anywhere (1) • Completely correct response (1) Examples: • (51 min)(60 sec/min)(71 megabits/sec)(1000 bits/kilobits)(1000 kilobits/megabits) / (8 bits/byte) • $\frac{51 \times 60 \times 71 \times 1000 \times 1000}{8}$ • $51 \times 60 \times 71 \times 1000 \times 1000 \div 8$ • $51 \times 60 \times 71 \times 1000 \times 125$	Award equivalent expressions: • 1000×1000 • 1000^2 • $10^3 \times 10^3$ • 10^6 • $\times 8^{-1}$ • $\times 1/8$ Allow mental reductions	2

Question number	Answer	Additional guidance	Mark																										
5(c)	Award one mark for each correct cell: <table><tr><th>Label</th><th>Value</th></tr><tr><td>A</td><td>Customer (1)</td></tr><tr><td>B</td><td>Customer (information/registration file/database) (1)</td></tr><tr><td>C</td><td>Booking (information/file/database) (1)</td></tr><tr><td>D</td><td>Register (1)</td></tr><tr><td>E</td><td>(Check/Query) availability (1)</td></tr><tr><td>F</td><td>(Make/Process) booking (1)</td></tr><tr><td>G</td><td>Last name, First name, Phone, Email (1)</td></tr><tr><td>H</td><td>Unique ID / Customer number / Identification Number (1)</td></tr><tr><td>I</td><td>Date, Time, Group size (1)</td></tr><tr><td>J</td><td>Availability (status/details) (1)</td></tr><tr><td>K</td><td>Date, Time, Group size, Unique ID/Customer number/ID (1)</td></tr><tr><td>L</td><td>Booking reference/details (1)</td></tr></table>	Label	Value	A	Customer (1)	B	Customer (information/registration file/database) (1)	C	Booking (information/file/database) (1)	D	Register (1)	E	(Check/Query) availability (1)	F	(Make/Process) booking (1)	G	Last name, First name, Phone, Email (1)	H	Unique ID / Customer number / Identification Number (1)	I	Date, Time, Group size (1)	J	Availability (status/details) (1)	K	Date, Time, Group size, Unique ID/Customer number/ID (1)	L	Booking reference/details (1)	Where a cell has more than the required field names, mark from the left. Values provided for arrows (G-L) must be data labels, e.g. nouns, not processes, e.g. verbs Allow name instead of First and Last name.	
Label	Value																												
A	Customer (1)																												
B	Customer (information/registration file/database) (1)																												
C	Booking (information/file/database) (1)																												
D	Register (1)																												
E	(Check/Query) availability (1)																												
F	(Make/Process) booking (1)																												
G	Last name, First name, Phone, Email (1)																												
H	Unique ID / Customer number / Identification Number (1)																												
I	Date, Time, Group size (1)																												
J	Availability (status/details) (1)																												
K	Date, Time, Group size, Unique ID/Customer number/ID (1)																												
L	Booking reference/details (1)																												

12

Question number	Indicative content	Additional guidance	Mark
6	Storage • Audio and video recordings are records of student progress. • Storing audio files and video files of music performances will take a great deal of storage. • The music teacher should buy as much physical secondary storage as the teacher can afford. • The teacher may record on their phone and Bluetooth the data to their laptop. • Alternatively, if the cost of storage is too high, the teacher could record performances on their phone and upload them to the cloud, although the teacher would have to buy cloud storage instead, which is an ongoing cost. • Hard disk (magnetic) storage may be cheaper than solid-state. • A solid-state internal disk may be the right choice for storing the teacher's daily work. • An external magnetic hard disk could be used for off-loading/archiving the files to make room on the internal disk. Media support • Microphone ◦ The teacher will need a built-in microphone on the laptop. ◦ The teacher may want an external microphone that plugs into the speaker jack or an even better one that uses a USB port ◦ The teacher may want a microphone that can be moved around and placed near the performers • Speakers ◦ The teacher will need built-in speakers on the laptop. ◦ The teacher may choose to have a set of external speakers that could be plugged into USB. ◦ External speakers would allow the teacher to arrange the components around the room for the best audio experience. • Video cameras ◦ The teacher will need a video camera for recording performances ◦ An externally attached video camera would be better than trying to use the web cam, as it would let the teacher move around. The teacher could		12

	use the laptop while recording, rather than have the web cam face the performer. • Video conferencing ○ The teacher will probably be holding video conferences with students/teachers/parents. ○ A built-in web camera is the best way to do this. ○ If there are other people in the room, consider buying a multi-function device, such as a conferencing speaker that is both a speaker and microphone. It could attach via Bluetooth to a laptop.		
--	---	--	--

Example:

The teacher needs to carry all equipment with her, so the overall weight of the system should be kept to a minimum. She should consider a smaller screen, which will reduce the overall size and weight.

Because she's likely to drop the laptop at some point, the case needs to be robust. Also, a device that locks components when a drop is detected would help protect the laptop data, in the event she drops it.

The music teacher will be recording audio and video of performances, so will need a large amount of secondary storage. This could be a magnetic hard disk or it could be solid-state. Solid-state would ensure the laptop boots quickly and is more resilient to data damage, if dropped. As the amount of data is likely to be large, she might want to buy an additional external hard drive to back up the data.

Keeping audio and/or video recording of performances is how she will keep records about the students. For that, she will need a microphone, either built-in or connected with USB. She will also need speakers. Built-in would be fine, but she could consider external ones, which may produce a better listening experience. She may also need the ability to do video conferencing. For that she will need a web cam (or video camera), microphone, and speaker. She can get a single device that is both a speaker and a microphone, which might be easier to carry.

To make sure the data on the laptop is secure, she should consider using biometrics, such as fingerprints as a method to logon. She will also need to ensure she has up-to-date anti-malware that uses both database signatures and heuristics to spot bad behaviours. She could also consider using file encryption so that the data will not be understood if stolen. As she is visiting many different places, she should also have a Kensington lock to tie the laptop down.

Level	Mark		Descriptor
	0		No rewardable material.
Level 1	1–4		• Demonstrates limited knowledge and understanding, some of which may be inaccurate. • Applies understanding with limited coherence to produce a response that lacks development. • Demonstrates limited awareness of competing arguments. Conclusion, if present, is generic or unsupported.
Level 2	5–8		• Demonstrates knowledge and understanding, which is mostly relevant and may include some inaccuracies. • Applies understanding to make some coherent connections and a partially developed response. • Demonstrates some awareness of competing arguments, but this may be unbalanced, and partially supports conclusion with evidence.
Level 3	9–12		• Demonstrates accurate and relevant knowledge and understanding throughout. • Applies understanding coherently to produce a fully developed response. • Demonstrates an awareness of competing arguments and supports conclusion with evidence.