



# Practice Papers

for OCR L1/2 Cambridge Nationals in IT  
R050: IT in the Digital World

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# Teacher's Introduction

This resource has been written to support students who are preparing for the **R050** external examination in OCR Cambridge National Level 1 / Level 2 in IT (**J836**). This pack contains questions and detailed mark scheme answers that strictly adhere to the unit content and guidance stated in the updated **2022** specification. This will therefore give you confidence that this resource will guide your students on the correct learning path to success.

## Remember!

Always check the exam board website for new information, including changes to the specification and sample assessment material.

**Note:** It is likely that OCR will award marks for other acceptable answers beyond those stated in the specification. However, rather than trying to prejudice these, the mark schemes in this pack have been limited to answers stated within the J836 specification content only. When a student gives an answer that is not on the specification (and, therefore, is not in this mark scheme), please use your professional judgement and award marks as you would expect an OCR examiner to do.

These papers can be used either as mock examination papers or to access additional questions while the specification is being taught. The specification coverage grid on the following pages indicates where each specification point is tested.

This pack includes **four** brand-new question papers and supporting mark schemes. These papers contain:

- original questions that students will not have been able to access before
- questions that are structured similarly to the way their actual exam will be structured
- questions that cover all of the specification points more than once – you will, therefore, be able to assess how well your students understand the content across the whole unit
- a range of written questions that students will need to be able to respond to in their exam
- practice diagrams to give students additional practice drawing flow charts, mind maps, wireframes and visualisation diagrams, which students can often find tricky to draw – a full solution is given for each of these diagrams
- extended questions to give students additional practice responding to these types of questions
- up-to-date content that reflects the latest **2022** specification changes to best prepare students for their exam

## Important Notice

This resource has been written based on the information made available by the exam board in November 2023. You should always check the exam board website for new information and possible changes to the specification and the format of the exam.

*December 2023*

# Specification Coverage

## Topic 1: Design tools

Specification point	Paper
<b>1.1 Types of design tools</b> <ul style="list-style-type: none"> <li>Flow charts</li> <li>Visualisation diagrams</li> <li>Mind maps</li> <li>Wireframes</li> </ul>	Q18

## Topic 2: Human-Computer Interface (HCI) in everyday life

Specification point	Paper
<b>2.1 The purpose, importance and use of HCI</b> <ul style="list-style-type: none"> <li>Banking</li> <li>Entertainment</li> <li>Home appliances</li> <li>Embedded systems</li> <li>Fitness</li> <li>Retail</li> </ul>	Q6
<b>2.2 Hardware considerations</b> <ul style="list-style-type: none"> <li>Display</li> <li>Resources</li> </ul>	Q14
<b>2.3 Software considerations</b> <ul style="list-style-type: none"> <li>Operating system</li> <li>Digital platform</li> </ul>	
<b>2.4 User interaction methods</b> <ul style="list-style-type: none"> <li>Gesture</li> <li>Mouse</li> <li>Voice</li> <li>Keyboard</li> <li>Touch</li> </ul>	Q7

## Topic 3: Data analysis

Specification point	Paper
<b>3.1 Information and data</b> <ul style="list-style-type: none"> <li>What data is</li> <li>What information is</li> <li>The relationship between data and information</li> </ul>	Q4
<b>3.2.1 Use of data types in different contexts</b> <ul style="list-style-type: none"> <li>Alphanumeric</li> <li>Date</li> <li>Text</li> <li>Boolean</li> <li>Numeric</li> </ul>	Q10
<b>3.2.2 The difference between validation and verification</b> <ul style="list-style-type: none"> <li>Data type check</li> <li>Input mask</li> <li>Limited choice</li> <li>Presence check</li> <li>Format check</li> <li>Length check</li> <li>Lookup</li> <li>Rang check</li> </ul>	Q16a Q16b
<b>3.2.4 Data verification tools</b> <ul style="list-style-type: none"> <li>Double entry</li> <li>Manual checking</li> </ul>	Q5
<b>3.3 Data collection methods</b> <ul style="list-style-type: none"> <li>Primary</li> <li>Secondary</li> </ul>	Q19a Q19b Q19c Q19d

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Specification point		Paper
3.4	<b>Storage of collected data</b> <ul style="list-style-type: none"> <li>• Logical location</li> <li>• Physical location</li> </ul>	Q20
3.5.1	<b>Importance and purpose of testing</b>	Q15a
3.5.2	<b>Test data</b> <ul style="list-style-type: none"> <li>• Extreme</li> <li>• Invalid (Erroneous)</li> <li>• Valid</li> </ul>	Q15b
3.5.3	<b>Types of users</b> <ul style="list-style-type: none"> <li>• Technical</li> <li>• User</li> </ul>	Q15c

### Topic 4: Cyber-security and legislation

Specification point		Paper
4.1	<b>Threats</b> <ul style="list-style-type: none"> <li>• Denial of Service (DoS)</li> <li>• Malware</li> <li>• Hacking</li> <li>• Social engineering</li> </ul>	Q1 Q17a
4.2	<b>The impacts of a cyber-security attack</b> <ul style="list-style-type: none"> <li>• Data destruction</li> <li>• Data manipulation</li> <li>• Data modification</li> <li>• Data theft – in transit and at rest</li> <li>• Denial of Service (DoS) to authorised users</li> <li>• Identity theft</li> </ul>	17b
4.3	<b>Prevention measures</b> <ul style="list-style-type: none"> <li>• Secure destruction of data</li> </ul>	Q2 Q3
4.4	<b>Legislation related to the use of IT systems</b> <ul style="list-style-type: none"> <li>• Computer Misuse Act</li> <li>• Copyright, Designs and Patents Act</li> <li>• Data Protection Act</li> <li>• Freedom of Information Act</li> <li>• Health and Safety at Work Act</li> </ul>	Q13

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## Topic 5: Digital communications

Specification point	Paper
<b>5.1 Types</b> <ul style="list-style-type: none"> <li>• Audio</li> <li>• Leaflet</li> <li>• Newsletters</li> <li>• Reports</li> <li>• Video</li> <li>• Voice over Internet Protocol (VoIP)</li> <li>• Collaboration tools</li> <li>• Infographics</li> <li>• Presentations</li> <li>• Social media</li> <li>• Webinars</li> </ul>	
<b>5.2 Software</b> <ul style="list-style-type: none"> <li>• Desktop publishing (DTP)</li> <li>• Standard office applications</li> </ul>	Q9
<b>5.3 Digital devices</b> <ul style="list-style-type: none"> <li>• Smartphone</li> <li>• PC/Laptop</li> <li>• Smartboard</li> <li>• Smart TV</li> <li>• Tablet</li> </ul>	
<b>5.4 Distribution channels</b> <ul style="list-style-type: none"> <li>• Types of distribution channel</li> <li>• Distribution channel connectivity</li> <li>• Audience demographics</li> </ul>	Q11 Q12

## Topic 6: Digital communications

Specification point	Paper
<b>6.1 Use of IoE</b> <ul style="list-style-type: none"> <li>• What is the IoE</li> <li>• The four pillars of the IoE</li> <li>• The interactivity between the four pillars</li> <li>• Intelligent interactivity</li> </ul>	Q8
<b>6.2 Applications in everyday life</b> <ul style="list-style-type: none"> <li>• Energy management</li> <li>• Health</li> <li>• Manufacturing</li> <li>• Military / Emergency services</li> <li>• Smart devices</li> <li>• Transport</li> </ul>	

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ZigZag Practice Exam  
Supporting OCR L1/L2 Cambridge Nationals

OCR Level 1 / Level 2 Cambridge Nationals

Unit R050: IT in the Digital World

Practice Paper 1

Name	
------	--

**Time allowed**  
1 hour 30 minutes

**Instructions**  
Answer all of the questions and use the space provided.

**Information**  
The total marks available for this paper is 70. The number of marks available for each question is shown in brackets.

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Answer ALL questions in the spaces provided.

SECTION A

1. Malware threats pose a risk to individuals and organisations.

State **two** types of malware threat.

1.....

2.....

2. Which of these is an example of physical security? Tick (✓) the correct

A Encryption

B Usernames

C Passwords

D Facial recognition

3. Which of these is an example of logical security? Tick (✓) the correct

A RFID

B Keypads

C Anti-malware

D Door locks

4. State what is meant by the term 'data'.

.....

.....

5. State the name of a tool that involves entering data twice to ensure that the data is the same.

.....

.....

6. Banking is one example of where a Human Computer Interface (HCI) is used.

Identify **one** more example of where an HCI is used.

.....

.....

7. State **one** example of a user interaction method that can be used to interact with HCI's.

.....

.....

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8. Which of these is **not** one of the four pillars of the Internet of Everything? Tick (✓) the correct box.

- A People
- B Things
- C Places
- D Data

9. Draw a line from each task to the correct matching software that would be used to complete the task.

Task
Writing a letter to a customer
Producing graphs and charts
Creating a poster that contains text and images

- Spreadsheets
- Word processors
- Desktop publishing

10. Which of these is **not** a numeric data type? Tick (✓) the correct box.

- A Boolean
- B Currency
- C Integer
- D Real

11. Which of these is **not** an example of a distribution channel? Tick (✓) the correct box.

- A Email
- B Instant messaging
- C VoIP
- D Data validation

12. When choosing which type of distribution channel to use, you should consider audience demographics to ensure it is suitable for their needs.

State **one** audience demographic consideration you would make before choosing a distribution channel.

.....

.....

13. State the name of legislation that makes hacking illegal in the United Kingdom.

.....

.....

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## SECTION B

Read the scenario in the box below. Questions 14 to 20 relate to this scenario.

### Scenario

Felix owns a luxury cake business. He makes cakes for special events such as birthdays and anniversaries.

Felix would like to start selling cakes on his website. Figure 1 shows part of the website.

**Cake Order**

Instruction: Please complete this form to order one of our delicious cakes.

Full Name

Address

Postcode

Phone Number

Cake Flavour

Size

Figure 1

14. State **two** factors that can impact the way an HCI is displayed on a device.

1.....

.....

2.....

.....

15. (a) Felix will need to test his cake ordering system.

Explain why it is important to test the system before customers use it.



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(b) Felix will test the cake ordering system using a range of different test data.

Complete the table by identifying **three different** types of test data, using the **size** text box shown in **Figure 1**. You should give an example of test data.

Type of data	Example data
	

(c) Describe the difference between technical testing and user testing.

.....

.....

.....

.....

16. Felix will make use of data validation in his cake ordering system.

(a) Describe what is meant by the term 'data validation'.

.....

.....

.....

.....

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17. Felix wants to ensure that the cake ordering system is secure to avoid his business.
- (a) Felix will make use of 'white hat' and 'grey hat' hacking to identify security systems.

Explain the difference between 'white hat' and 'grey hat' ethical hacking.



- (b) Explain three possible negative impacts that a cyber-security attack has on Felix's business.

1 .....

2 .....

3 .....

18. When a customer wishes to order a cake:

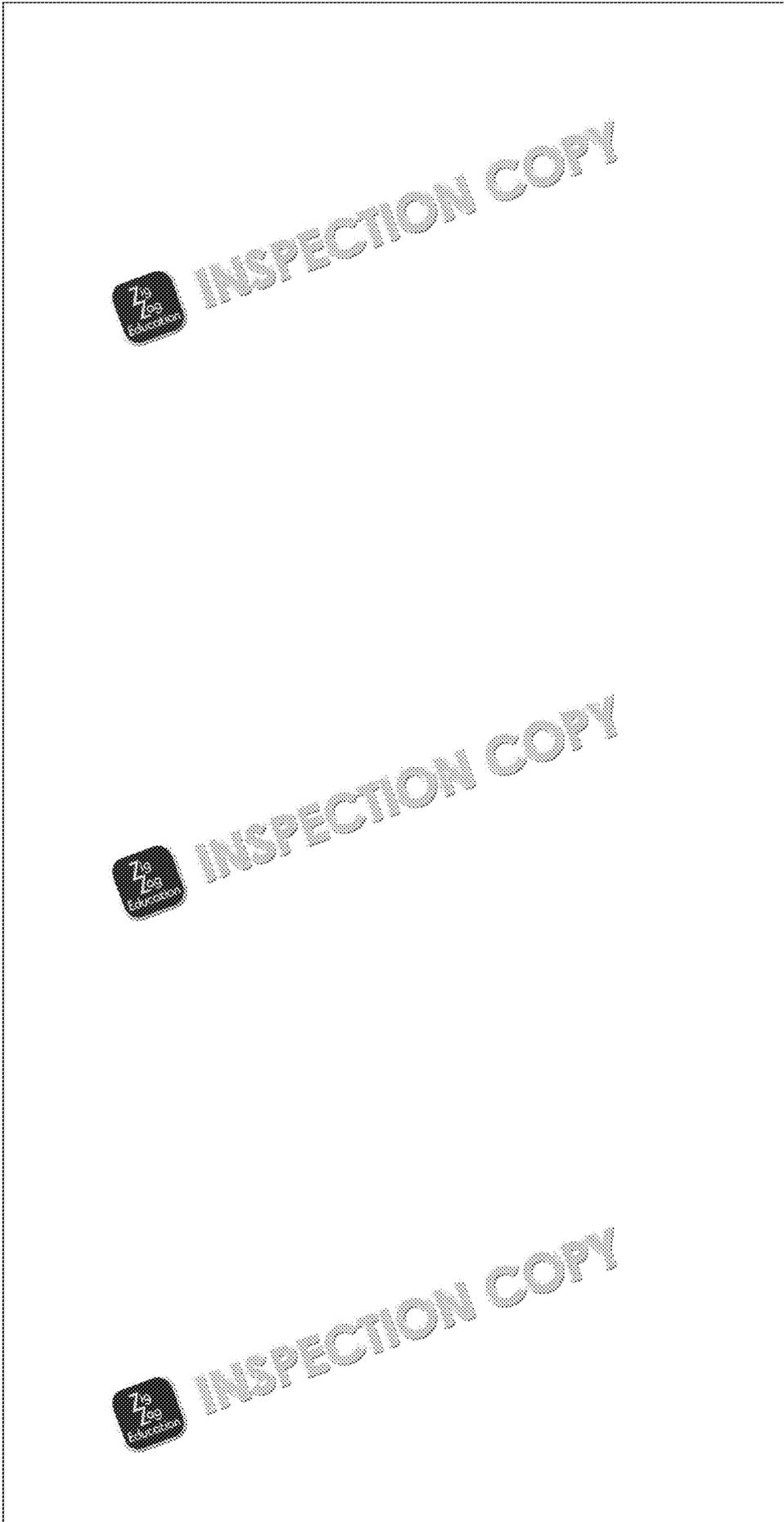
1. They select the design of cake they want to order.
2. They enter the occasion for which the cake is for.
3. They enter any food allergies.
4. They choose a delivery method.
5. If they choose "Next Day Delivery" then "£19.99 Delivery Charge" is displayed.
6. If they choose "Express Delivery" then "£9.99 Delivery Charge" is displayed.
7. If they do not choose "Next Day Delivery" or "Express Delivery" then "£0.00 Delivery Charge" is displayed.
8. At the end of the process, "Order Confirmed" is displayed.

Draw a flow chart on the next page to show this process.

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Draw your flow chart here.



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19. Felix would like to collect data to find out other types of cake that customers are considering using either primary data or secondary data collection methods.

(a) Describe the difference between primary data and secondary data.

.....

.....

.....

.....

(b) State **two** different types of primary data collection methods that Felix could use.

1 .....

2 .....

(c) State **two** different types of secondary data collection methods that Felix could use.

1 .....

2 .....

(d) Explain **one** drawback of using secondary data to Felix.

.....

.....

.....

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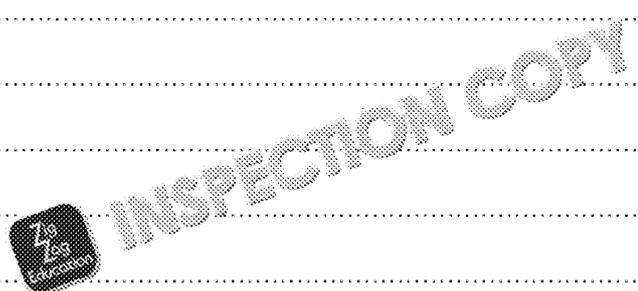
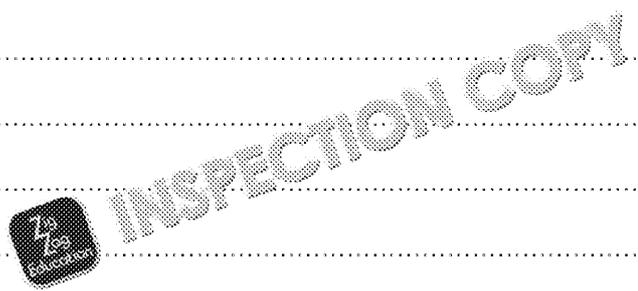
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20. Felix is opening more cake shops across the United Kingdom. He is allowing the different cake shops to share data with one another.

Discuss the advantages and disadvantages of Felix storing his data on

Handwriting practice area consisting of multiple sets of horizontal dotted lines for writing.



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**End of Question Paper**

# Practice Paper 1

Answer ALL questions.

## SECTION A

- Malware threats pose a risk to individuals and organisations. State **two** types of malware threat.
- Which of these is an example of physical security?
 

A Encryption	C Passwords
B Usernames	D Facial recognition
- Which of these is an example of logical security?
 

A RFID	C Anti-malware
B Keypads	D Door locks
- State what is meant by the term 'data'.
- State the name of a tool that involves entering data twice to ensure they are the same.
- Banking is one example of where a Human Computer Interface (HCI) can be used. Identify **one** more example of where an HCI can be used.
- State **one** example of a user interaction method that can be used to interact with HCIs.
- Which of these is **not** one of the four pillars of the Internet of Everything?
 

A People	C Places
B Things	D Data
- Match each task to the correct matching software that would be used.



### Task

Writing a letter to a customer
Producing graphs and charts
Creating a poster that contains text and images

S
W
D

- Which of these is **not** a numeric data type?
 

A Boolean	C Integer
B Currency	D Real
- Which of these is **not** an example of a distribution channel?
 

A Email	C VoIP
B Instant messaging	D Data broadcast
- When choosing which type of distribution channel to use, you should consider demographics to ensure they are suitable for their needs. State **one** audience demographic consideration you would make before choosing a distribution channel.
- State the name of legislation that makes hacking illegal in the United Kingdom.

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## SECTION B

Read the scenario in the box below. Questions 14 to 20 relate to this scenario.

### Scenario

Felix owns a luxury cake business. He makes cakes for special events such as birthdays and anniversaries.

Felix would like to start selling cakes on his website. Figure 1 shows part of the website.

Figure 1

14. State **two** factors that can impact the way an HCI is displayed on a device.
15. (a) Felix will need to test his cake ordering system.  
Explain why it is important to test software before customers use it.
- (b) Felix will test the cake ordering system using a range of different test data. Copy and complete the table by identifying **three different** types of test data used to test the **size** text box shown in Figure 1. You should give an example of test data for each type of test data.

Type of data	Example data

- (c) Describe the difference between technical testing and user testing.
16. Felix will make use of data validation in his cake ordering system.  
(a) Describe what is meant by the term 'data validation'.

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(b) Felix would like to use data validation in his cake ordering system.

Copy and complete the table by identifying **four different** methods that could use. You should give a specific example of how each of the ordering form shown in **Figure 1**.

Validation type	Example use

17. Felix wants to ensure that the cake ordering system is secure to avoid his business.
- (a) Felix will make use of 'white hat' and 'grey hat' hacking to identify security systems.  
Explain the difference between 'white hat' and 'grey hat' ethical hacking.
- (b) Explain **three** possible negative impacts that a cyber-security attack could have on Felix's business.
18. When a customer wishes to order a cake:

1. They select the design of cake they want to order.
2. They enter the occasion for which the cake is for.
3. They enter any food allergies.
4. They choose a delivery method.
5. If they choose "Next Day Delivery" then a "£9.99 Delivery Charge" is displayed.
6. If they choose "Express Delivery" then a "£29.99 Delivery Charge" is displayed.
7. If they do not choose "Next Day Delivery" or "Express Delivery" then "Standard Delivery" is displayed.
8. At the end of the process, "Order Confirmed" is displayed.

Draw a **flow chart** to show this process.

19. Felix would like to collect data to find out other types of cake that customers are interested in, considering using either primary data or secondary data collection methods.
- (a) Describe the difference between primary data and secondary data collection methods.
- (b) State **two** different types of primary data collection methods that Felix could use.
- (c) State **two** different types of secondary data collection methods that Felix could use.
- (d) Explain **one** drawback of using secondary data to Felix.
20. Felix is opening more cake shops across the United Kingdom. He is considering using a cloud-based system to allow the different cake shops to share data with one another.

Discuss the advantages and disadvantages of Felix storing his data on a cloud-based system.

End of Question Paper

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# Practice Paper 1 – Mark Scheme

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Qu.	Answer							
1	1 mark per threat, up to a maximum of 2 marks. <ul style="list-style-type: none"> <li>• Adware (1)</li> <li>• Ransomware (1)</li> <li>• Trojan Horse (1)</li> <li>• Worm (1)</li> <li>• Botnet (1)</li> <li>• Spyware (1)</li> <li>• Virus (1)</li> </ul>							
2	D – Facial recognition (1)							
3	C – Anti-malware (1)							
4	1 mark for: <ul style="list-style-type: none"> <li>• Values that have no meaning (1)</li> <li>• Values have no structure (1)</li> </ul>							
5	1 mark for: <ul style="list-style-type: none"> <li>• Data verification (1)</li> <li>• Double entry (1)</li> </ul>							
6	1 mark for: <ul style="list-style-type: none"> <li>• Embedded systems (1)</li> <li>• Fitness (1)</li> <li>• Retail (1)</li> <li>• Entertainment (1)</li> <li>• Home appliances (1)</li> </ul> Allow examples of these. For example, allow 'smart meter' as an example.							
7	1 mark for: <ul style="list-style-type: none"> <li>• Gestures (1)</li> <li>• Mouse (1)</li> <li>• Voice (1)</li> <li>• Keyboard (1)</li> <li>• Touch (1)</li> </ul> Allow other examples of gestures that are suitable for touchscreen.							
8	C – Places (1)							
9	1 mark for one correct match. 2 marks for two correct matches <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 5px;">Writing a letter to a customer</td> <td rowspan="3" style="border: none; padding: 0 10px;"> </td> <td style="padding: 5px;">Spreadsheet</td> </tr> <tr> <td style="padding: 5px;">Producing graphs and charts</td> <td style="padding: 5px;">Word processor</td> </tr> <tr> <td style="padding: 5px;">Making a poster that contains text and images</td> <td style="padding: 5px;">Desktop publishing</td> </tr> </table> </div>	Writing a letter to a customer		Spreadsheet	Producing graphs and charts	Word processor	Making a poster that contains text and images	Desktop publishing
Writing a letter to a customer		Spreadsheet						
Producing graphs and charts		Word processor						
Making a poster that contains text and images		Desktop publishing						
10	A – Boolean (1)							
11	D – Data validation (1)							
12	1 mark for: <ul style="list-style-type: none"> <li>• Accessibility (1)</li> <li>• Gender (1)</li> <li>• Age (1)</li> <li>• Location (1)</li> </ul>							
13	Computer Misuse Act (1)							
14	1 mark for each factor, up to a maximum of 2 marks. <ul style="list-style-type: none"> <li>• Type of device / type of touchscreen (1)</li> <li>• Size of the screen (1)</li> </ul>							
15a	1 mark for stating an initial point and then 1 mark for a suitable expansion, up to 2 marks. <ul style="list-style-type: none"> <li>• To ensure the program works correctly (1) so that customers can successfully use the system (1)</li> <li>• To ensure it meets his requirements (1) to ensure it does exactly what is needed (1)</li> <li>• To ensure it produces the correct results (1) so that customers are given the information they need (1)</li> </ul>							
15b	1 mark for each type of data and 1 mark for a suitable example, up to 3 marks. <ul style="list-style-type: none"> <li>• Binary data (1) Example data = 1 or 4 (1)</li> <li>• Numerical data (1) Example data = any value greater than 4 (1)</li> <li>• Text data (1) Example data = 2 or 3 (1)</li> </ul>							

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Qu.	Answer								
15c	<p>1 mark for technical testing and 1 mark for user testing, up to a maximum</p> <ul style="list-style-type: none"> <li>• <b>Technical testing</b> checks the system works correctly / functions correctly (1) // will check that the system meets the user requirements (1)</li> <li>• <b>User testing</b> – observing users completing tasks / interacting with the feedback on how it can be improved (1)</li> </ul>								
16a	<p>1 mark for stating an initial point and then 1 mark for a suitable expansion, up to</p> <ul style="list-style-type: none"> <li>• <b>Checks the data entered into a system</b> (1) to check that it is reasonable / without boundaries (1) to reduce the number of errors (1)</li> </ul> <p>Do not accept 'to check data is correct'</p>								
16b	<p>1 mark for each type of validation and 1 mark for a suitable example, up to</p> <ul style="list-style-type: none"> <li>• <b>Data type</b> (1) to ensure the full name contains only letters (1)</li> <li>• <b>Valid choice</b> (1) to ensure a valid flavour has been selected (1)</li> <li>• <b>Length</b> (1) to ensure a valid flavour has been selected (1)</li> <li>• <b>Presence check</b> (1) to ensure an address has been entered (1)</li> <li>• <b>Range check</b> (1) to ensure the cake size is between 1 and 4 (1)</li> </ul> <p>Allow other suitable examples of data validation.</p>								
17a	<p>1 mark for white hat hacking and 1 mark for grey hat hacking, up to a maximum</p> <p>White hat hacking:</p> <ul style="list-style-type: none"> <li>• The hacker has permission from the organisation to use their skills to improve their systems (1)</li> <li>• Must follow ethical guidelines/standards (1)</li> </ul> <p>Grey hat hacking:</p> <ul style="list-style-type: none"> <li>• The hacker doesn't have permission from the organisation to use their vulnerabilities in their systems (1)</li> <li>• Doesn't always follow ethical guidelines/standards (1)</li> </ul>								
17b	<p>1 mark for stating an initial impact and then 1 mark for a suitable expansion, up to</p> <ul style="list-style-type: none"> <li>• <b>Data destruction</b> (1) could mean that important data is permanently and unrecoverable (1)</li> <li>• <b>Data manipulation/modification</b> (1) could mean that data is changed impacts the business (1)</li> <li>• <b>Data theft</b> (1) could mean that users' bank account details are stolen / their money stolen (1)</li> <li>• <b>Denial of service</b> (1) – meaning that customers cannot access the cake order system and will lose money due to orders not being placed (1)</li> <li>• <b>Identity theft</b> (1) – customers' personal data may be stolen for illegal purposes (1)</li> </ul> <p>Allow other suitable answers as long as they are suitable for the cake order system.</p>								
18	<p>The student's flow chart should be assessed using this marking grid:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Level</th> <th>Marking guidance</th> </tr> </thead> <tbody> <tr> <td>Level 3 (7–8 marks)</td> <td> <ul style="list-style-type: none"> <li>• Mostly accurate use of correct symbols</li> <li>• Mostly accurate use of connections to show direction/order</li> <li>• Diagram covers most of the scenario given</li> </ul> </td> </tr> <tr> <td>Level 2 (4–6 marks)</td> <td> <ul style="list-style-type: none"> <li>• Some use of correct symbols</li> <li>• Some use of connections to show direction/order</li> <li>• Diagram covers some of the scenario given</li> </ul> </td> </tr> <tr> <td>Level 1 (1–3 marks)</td> <td> <ul style="list-style-type: none"> <li>• Limited use of correct symbols</li> <li>• Limited use of connections to show direction/order</li> <li>• Diagram covers little of the scenario given</li> </ul> </td> </tr> </tbody> </table> <p>Example solution overleaf</p>	Level	Marking guidance	Level 3 (7–8 marks)	<ul style="list-style-type: none"> <li>• Mostly accurate use of correct symbols</li> <li>• Mostly accurate use of connections to show direction/order</li> <li>• Diagram covers most of the scenario given</li> </ul>	Level 2 (4–6 marks)	<ul style="list-style-type: none"> <li>• Some use of correct symbols</li> <li>• Some use of connections to show direction/order</li> <li>• Diagram covers some of the scenario given</li> </ul>	Level 1 (1–3 marks)	<ul style="list-style-type: none"> <li>• Limited use of correct symbols</li> <li>• Limited use of connections to show direction/order</li> <li>• Diagram covers little of the scenario given</li> </ul>
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## **Preview of Answers Ends Here**

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This is a limited inspection copy. Sample of answers ends here to stop students looking up answers to their assessments. See contents page for details of the rest of the resource.