

Teacher guide

OCR Level 1/Level 2

Cambridge National in

J836

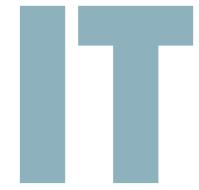
For first teaching in 2022 | Version 2

Exploring our exams: a guide to our Sample Assessment Material

ocr.org.uk/cambridgenationals







Introduction

This is Sample Assessment Material (SAM) which has been produced for the qualification OCR Level 1/Level 2 Cambridge National in IT.

The SAM is an example exam paper that we publish alongside a new specification to help illustrate its intended style and structure when a qualification is first launched. We wanted to share the story of our assessment approach with you so when you look through the paper you will find we have pointed out certain features and explained the decisions we have made.

Resources to help support in teaching different areas of content can be found on the Cambridge National in IT webpage under '<u>Planning and teaching</u>'.

Our exam papers are developed with our accessibility principles in mind. The Cambridge Nationals <u>Understanding the assessment: examined and moderated</u> <u>guide</u> tells you a little more about the principles and rationale underpinning our approach for the qualifications. The 'Command Words' are in both the Understanding the assessment guide and the specification. These tell you what we mean by each command word and how students should approach the question and understand its demand.

You said, we did

During the development of this qualification, we talked extensively with teachers, subject experts and our senior assessment teams to influence it's structure, content and assessment materials. We then shared our final materials with teachers to make sure that they met their needs.

You told us that you wanted **to keep the exam as close to the current exam** for the existing Cambridge National in Information Technologies, so that's what we have tried to do.

You told us that **you would like a creative element to the exam paper**, so there will always be 1 creative question in Section B.

You told us that you would like **a straightforward and clear assessment** which is accessible by all students, so that's what we have tried to do with the scenarios.



All students will sit the exam at the same time on the same day.

The time allowed is designed to give students approximately one minute per mark plus 20 minutes reading/drawing time.

Each exam will sample topics from across the unit. The topics may not necessarily be in the same order as they appear in the unit content.

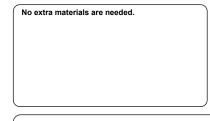
...day ... Month Year – Morning/Afternoon

Level 1/Level 2 Cambridge Nationals in IT

R050/01 IT in the Digital World •

SAMPLE ASSESSMENT MATERIAL (SAM)

Time allowed: 1 hour 30 minutes





Write clearly in black ink. Do not write in the barcodes.

Centre number Candidate

Candidate number

First name(s)

Last name

INSTRUCTIONS

- Use black ink.
- Write your answer to each question in the space provided. You can use extra paper if you need
 to, but you must clearly show your candidate number, the centre number and the question numbers.
- Answer all the questions.

INFORMATION

- The total mark for this paper is 70. •
- The marks for each question are shown in brackets [].
- · This document has 16 pages.

ADVICE

· Read each question carefully before you start your answer.

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This exam will always be set and marked by us. Assessments will be available in January and June each year. The result from the exam taken in the final assessment series before certification will be the one that counts towards the student's overall grade.

If students require additional answer space, lined pages may be available at the end of the answer booklet in a live question paper. Remember the question number(s) must be clearly shown.

The exam will always have 70 marks. Section A will have 15 marks and Section B will have 55 marks.

	2	
Section A contains a maximum of 5 multiple-choice questions worth 1 mark each. All others will be a mix of 1 or 2 mark short response questions.	Section A	
	1 A connecting line is a component of a flowchart. Identify two other components of a flowchart. 1	
	2 Identify one display hardware consideration for a Human Computer Interface (HCI).	The number of marks assigned to a question will always be given at the end of the question and will always be right aligned.
Students should use a tick (✓) in the box to show their response.	Which of these is formatted as an alphanumeric data type? (Tick (✓) the correct box) A 14/04/2021 B £10.99 C 432BJ D Y / N [1] 4 Which of these is not a secondary research source? (Tick (✓) the correct box)	Multiple-choice questions will test a range of knowledge from across the unit content. They allow us to assess Performance Objective 1 – Recall knowledge and show understanding of IT in the Digital World and Performance Objective 2 – Apply knowledge and understanding.
There will always be a maximum of four response options for each multiple choice question and these will always be given in alphabetical order. The four response options will consist of the correct answer and distractors.	A Book B Interview C Magazine D Website [1]	

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	3		
Appendix B in the Specification has a	5 Identify one logical storage location.		
glossary of Command Words that will be used in our exams. The glossary tells you what we mean by each command word.	6 Which type of test checks that a system will work or	[1] n a device screen?	Every question will assess one or more Topic Area(s), or a sub-part of a Topic Area.
command word.		[1]	
	 Which of these hackers has permission to hack into (Tick (*) the correct box) A Black Hat B Grey Hat 	o a business computer system?	
Instructions will be given on how to show your answers for this type of forced choice response question.	C White Hat 8 Draw a line to link the type of social engineering to	[1] the correct description.	
	You will only use two types of social engineering to		
	Type of social engineering	Description	
	Baiting	Criminals promise goods to get the information they need	
	Phishing	Criminals use computer programs designed to trick a user into buying and downloading unnecessary and dangerous software	
	Scareware	[2]	
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Sample Assessment Materials

	4	
	9 Hackers have accessed a business database. Some of the stored data has been deleted. This is an example of? (Tick (✔) the correct box) A Data destruction B Data manipulation C Data modification D Data theft	
	10 Keypads are one physical protection measure. Identify one other physical protection measure.	
When a question asks for a specific number of points the number of points will be in bold.	[1]	
	 Which legislation applies to employees using a computer system? (Tick (✓) the correct box) A Copyright, Designs and Patents Act B Data Protection Act C Freedom of Information Act D Health and Safety at Work Act 	
Where the stem forms a complete question, it will always be presented in this way.	12 Identify one type of distribution channel connectivity that could be used for digital communications.	
	[1]	
	Complete the sentence. When talking about the Internet of Everything (IoE), WWW stands for	Where a response finishes a sentence or statement, it will always be presented in this way.
	[1]	
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Section B •

Where contexts are given, these will be kept short and will not contain surplus information, not needed for the question.

Tables provided for information will be

left aligned to the page.

Monty Bella restaurant has a takeaway service. All meals on the menu can be ordered by customers to takeaway. Customers telephone the restaurant to order their meals. The total cost of the order is calculated by the restaurant. Customers pay for the order using a debit card.

When they order, customers are given an order number and a time when the order will be ready for collection.

14 The orders are handwritten by the restaurant staff. An example of an order is shown in **Fig 1**.

Name Mia Taylor

Email address MT901@reur.co.uk

Meals Beef pie with chips
Lasagna
Salad

Cost £18.70

Paid Y

Order number 2378

Collection time 19:15

Fig.1

(a) Complete the table to show the data types that are used when entering the order onto a computer system. Justify your choice.

	Data Type	Justification
Name	• •	
Cost		•
Paid		
		[9]

7

Turn over

Section B contains a mix of short, medium and extended style response questions with a maximum of 9 marks. There will always be 1 extended response question worth 9 marks, 1 creative question worth 8 marks. This allows us to assess the following Performance Objectives:

- PO1 Recall knowledge and show understanding
- PO2 Apply knowledge and understanding
- PO3 Analyse and evaluate knowledge, understanding and performance.

Where a question asks for the completion of a table we will be provide space for the answer and the table will be centre aligned.

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	6
(b)	
(i)	Describe one characteristic of an external solid-state drive that would make it suitable for Monty Bella to store the customer orders.
	[2]
(ii)	Identify one logical storage location that could be used to store the customer orders.
	M1
	[1]

	7	
Question numbers will always be displayed as increasing numbers from 1.	Monty Bella is thinking about creating a website where customers can order takeaway meals and pay online.	
Part questions will always be displayed as (a) , (b) , etc.	(a) A Human Computer Interface (HCI) will be created as part of the website. (i) Explain the purpose of a Human Computer Interface (HCI).	
Sub-questions will always be displayed as (i), (ii), etc.	[2]	
	(ii) Customers of Monty Bella could use the HCl using the keyboard interaction method. Explain one advantage and one disadvantage to the customers of using a keyboard to interact with the HCl. Advantage	Sub-content topic areas will be sample across exam papers, over time.
	(iii) Identify one other interaction method that could be used with the HCI [1] © OCR 2022 Version 4 (November 2022)	

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(b)	A validation tool that limits the user choice could be applied to the quantity of each meal
	that customers can order through the Monty Bella website.

Explain why a limited choice validation tool will reduce errors when customers are ordering meals.

[2]

website. Marks will be awarded for: Content	the homepage of Monty Bella's new takeaway	There will always be an 8 mark creative question, which will be marked using a level of response mark scheme.
• Layout		
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The number of lines given for a question indicate the approximate length of the answer required.

		10		
6	The (a)	Monty Bella website has now been created. User testing has been carried out. Explain why user testing should be carried out on the Monty Bella website.		Questions and contexts will use the active voice wherever possible.
	leafle	aflet has been created to advertise the takeaway service of Monty Bella restaurant. The et will be distributed by email to existing customers. Explain one advantage to the Monty Bella restaurant of using a leaflet to advertise the takeaway service.	[2]	
	(c)	Explain one disadvantage to the customers of distributing the leaflet by email.	[2]	Short and medium answer responses test knowledge and understanding from across the unit content and allow students the opportunity to give free responses.
			 [2]	

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When a question asks for a specific number of points, we will always put numbers or response headings against the answer lines to show where students should write each point of their answer.

		11	
7		tomers have to register to use the takeaway website. To register, customers need to input details including name, address, a phone number and payment details.	
	The	customer details are stored by Monty Bella restaurant.	
	(a)	Identify the legislation that relates to the storing of customer details.	
			 [1]
	(b)	Identify two actions that need to be taken by the restaurant to comply with the legislation	١.
_	1		
_	2		
			[2]
	Mon	ty Bella restaurant is concerned about the security of the website.	
	(c)	When a customer registers for the website, the customer must create a username and password.	
		Explain how the usernames and passwords will increase the security of the website.	
			[2]
	(d)	The restaurant has been advised to install a firewall.	
		Explain how a firewall will increase the security of the Monty Bella website.	
			[2]
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12	
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18 Monty Bella restaurant wants to collect feedback from its customers about the takeaway service.

An online survey will be used to collect the feedback from the customers.

Explain **one** advantage and **one** disadvantage to the **restaurant** of using an online survey to collect the data.

Although the total mark shown is 4 marks there are 2 marks awarded for each explanation.

Auvantage	
Disadvantage	
<u> </u>	

[4]

Discuss the advantages and disadvantages to the restaurant of using a smart device connote the Internet of Everything.

There will always be 1 extended response question in Section B of the exam. This will always be a 9 mark question which will be marked using a level of response mark scheme.

Indicates to students there are no more questions to answer.

END OF QUESTION PAPER

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