OCR
Oxford Cambridge and RSA

…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

No extra materials are needed.

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

Centre number | | | | | | 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.

SAMPLE

Section A

1 A connecting line is a component of a flowchart.

Identify **two other** components of a flowchart.

1 .....

2 .....

[2]

2 Identify **one** display hardware consideration for a Human Computer Interface (HCI).

.....

[1]

3 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)

A	Book	☐
B	Interview	☐
C	Magazine	☐
D	Website	☐

[1]

SAMPLE

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5 Identify **one** logical storage location.

.....

[1]

6 Which type of test checks that a system will work on a device screen?

.....

[1]

7 Which of these hackers has permission to hack into a business computer system?

(Tick (✓) the correct box)

A Black Hat ☐

B Grey Hat ☐

C White Hat ☐

[1]

8 Draw a line to link the type of social engineering to the correct description.

You will only use two types of social engineering to complete the task.

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]

SAMPLE

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	☐

[1]

10 Keypads are one physical protection measure.

Identify **one other** physical protection measure.

.....

[1]

11 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	☐

[1]

12 Identify **one** type of distribution channel connectivity that could be used for digital communications.

.....

[1]

13 Complete the sentence.

When talking about the Internet of Everything (IoE), WWW stands for

.....

[1]

SAMPLE

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Section B

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]

SAMPLE

(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.

.....

.....

[1]

SAMPLE

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15 There have been occasions where customer orders have been mixed up.

Monty Bella is thinking about creating a website where customers can order takeaway meals and pay online.

(a) A Human Computer Interface (HCI) will be created as part of the website.

(i) Explain the purpose of a Human Computer Interface (HCI).

.....

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.....

[2]

(ii) Customers of Monty Bella could use the HCI using the keyboard interaction method.

Explain **one** advantage and **one** disadvantage to the **customers** of using a keyboard to interact with the HCI.

Advantage .....

.....

.....

.....

.....

.....

Disadvantage .....

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.....

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.....

.....

[4]

(iii) Identify **one** other interaction method that could be used with the HCI

.....

[1]

SAMPLE

(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]

SAMPLE

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(c) Create a mind map to plan the content for the homepage of Monty Bella's new takeaway website.

Marks will be awarded for:

- Content
- Layout

[8]

SAMPLE

16 The Monty Bella website has now been created.

(a) User testing has been carried out.

Explain why user testing should be carried out on the Monty Bella website.

.....

.....

.....

.....

.....

.....

[2]

A leaflet has been created to advertise the takeaway service of Monty Bella restaurant. The leaflet will be distributed by email to existing customers.

(b) 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]

SAMPLE

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17 Customers have to register to use the takeaway website. To register, customers need to input their 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.

1 .....

.....

2 .....

.....

[2]

Monty 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.

.....

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.....

[2]

(d) The restaurant has been advised to install a firewall.

Explain how a firewall will increase the security of the Monty Bella website.

.....

.....

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.....

[2]

SAMPLE

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.

Advantage .....

.....

.....

.....

Disadvantage .....

.....

.....

.....

[4]

SAMPLE

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19 Monty Bella restaurant uses a smart device connected to the Internet of Everything (IoE).

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

.....

.....

.....

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END OF QUESTION PAPER

SAMPLE

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