

Friday 10 January 2025 – Afternoon

Level 1/Level 2 Cambridge National in IT

R050/01 IT in the digital world

Time allowed: 1 hour 30 minutes

No extra materials are needed.



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

Centre number

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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 **12** pages.

ADVICE

- Read each question carefully before you start your answer.

2
Section A

1 Identify **one** component of a wireframe.

..... [1]

2 Unix is an example of which of the following?

Tick (✓) **one** box only.

- | | |
|---------------------------|--------------------------|
| A Database | <input type="checkbox"/> |
| B Memory | <input type="checkbox"/> |
| C Operating system | <input type="checkbox"/> |
| D Website | <input type="checkbox"/> |

[1]

3 Identify **two** interaction methods that can be used with a mobile device.

1

2

[2]

4 Percentage is an example of which data type?

..... [1]

5 Complete the sentence.

The alphanumeric data type can include and

[2]

6 One secondary data collection method is a magazine.

Identify **two other** secondary data collection methods.

1

2

[2]

7 What does NAS stand for?

..... [1]

8 Which type of hacker gains unauthorised access to a digital system with malicious intent?

Tick (✓) **one** box only.

- A Black hat
- B Grey hat
- C White hat

[1]

9 Draw a line to link the impact of a cyber-security attack to its correct description.

You will only use **two** types of impact.

Impact	Description
Data Destruction	The taking of data at rest or in transit.
Data Theft	Stolen personal data is used to commit fraud.
Identity Theft	

[2]

10 Which secure data destruction method replaces old data with new data?

..... [1]

11 Identify **one** type of Internet of Everything (IoE) digital interactivity.

..... [1]

Section B

A bank is launching a new savings account. Customers can access the savings account online using an app or through the website of the bank. The app and website will use the same human computer interface (HCI).

12 A laptop could be used to access the savings account HCI.

(a) Explain **two** characteristics of a laptop that make it appropriate to access the savings account HCI.

1

.....

.....

.....

2

.....

.....

.....

[4]

(b) Identify **two other** digital devices that can be used to access the savings account HCI.

1

2

[2]

13 The savings account will use a HCI.

(a) Identify **two** advantages **to customers** of the bank using a HCI for the savings account.

1

.....

2

.....

[2]

(b) Identify **two** disadvantages **to customers** of the bank using a HCI for the savings account.

1

.....

2

.....

[2]

(c) Explain why the memory resource of the hardware should be considered when a HCI is being designed.

.....

.....

.....

.....

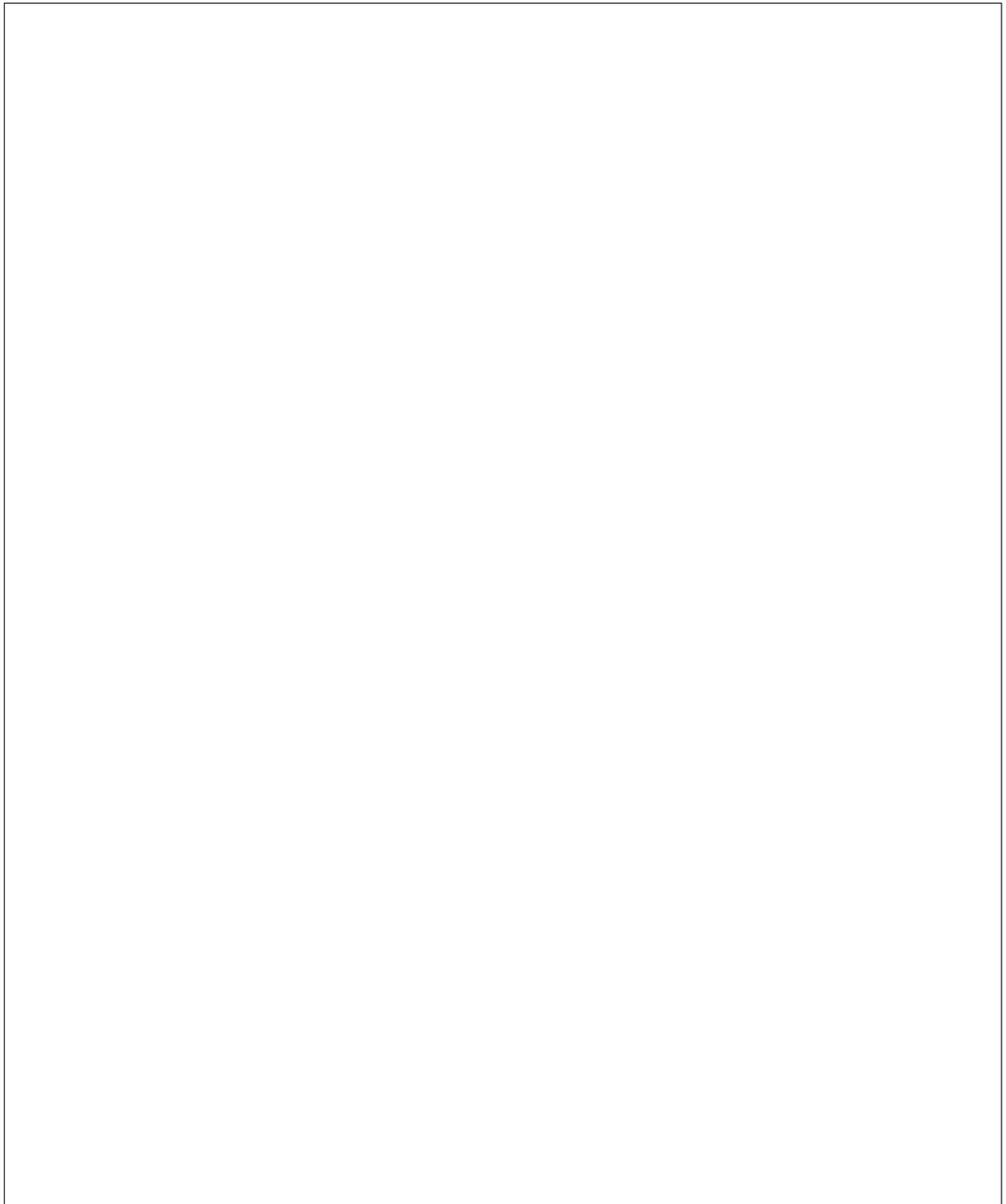
[2]

14 The first part of the HCI will allow users to log-in to their new savings account.

Create a mind map to plan the log-in screen of the HCI.

Marks will be awarded for:

- content;
- layout.



[8]

15 The HCI for the savings account will be tested before going live.

(a)

(i) Explain the purpose of carrying out technical testing on the savings account HCI.

.....
.....
.....
..... [2]

(ii) Explain **one** advantage and **one** disadvantage **to the bank** of carrying out technical testing.

Advantage

.....
.....
.....

Disadvantage

.....
.....
..... [4]

(b) As part of the testing process user testing will be carried out.

Identify and explain **one** example of user testing that would be carried out on the savings account HCI.

.....
.....
.....
..... [2]

- 16 The savings account data, including the personal data of the account holders, will be stored in the bank’s servers.

An example of the stored data is shown below.

Field	Example details
Account number	KFS0012
Name of account holder	Emma Riley
Account holder date of birth	26/02/2016
Amount paid in (£)	10.50
Amount taken out (£)	0.00
Balance	125.00
Contact email address	EPR@phmail.co.uk

- (a) Complete the table to show the data types used when storing the savings account data.

Justify your choices.

Field	Data Type	Justification
Account number	
Account holder date of birth	
Balance	

[9]

(b) Identify the legislation that relates to the storing of personal data.

..... [1]

17 The bank will use a range of logical prevention measures to protect the savings account data.

(a) Explain how using secure back-ups can help protect the savings account data.

.....
.....
.....
..... [2]

(b) Identify **two other** logical prevention measures that the bank could use to protect the savings account data.

1
2 [2]

18 After setting up their new savings account, all account holders are contacted to explain how to protect their savings account details.

(a) Explain **one advantage to the bank** of using email to distribute this information to customers.

.....
.....
.....
..... [2]

.....

.....

.....

.....

.....

.....

19 The bank suffered a cyber-security attack when the savings account data was accessed by a hacker.

Identify **two** types of malware that could have been used.

1

2

[2]

END OF QUESTION PAPER

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