

Friday 9 January 2026 – 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

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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.

2
Section A

1 Which of the following is an operating system?

Tick (✓) **one** box only.

- A** Database
- B** Spreadsheet
- C** Website
- D** Windows

[1]

2 What does **SSD** stand for in computer storage?

..... [1]

3 Draw a line to link the cyber-security threat to the correct example.

You will only use **two** examples to complete this task.

Cyber-security threat

Malware

Social engineering

Example

Botnet

Pretexting

White hat hacking

[2]

4 Identify **two** methods that are used to securely destroy data.

1

2

[2]

5 Which of the following is a component of a flowchart?

Tick (✓) **one** box only.

- A Decision
- B Image placeholder
- C Layout grid
- D Theme

[1]

6 Identify **one** type of digital communication that helps people work together in groups.

..... [1]

7 Complete the following sentence using **one** term from the list below:

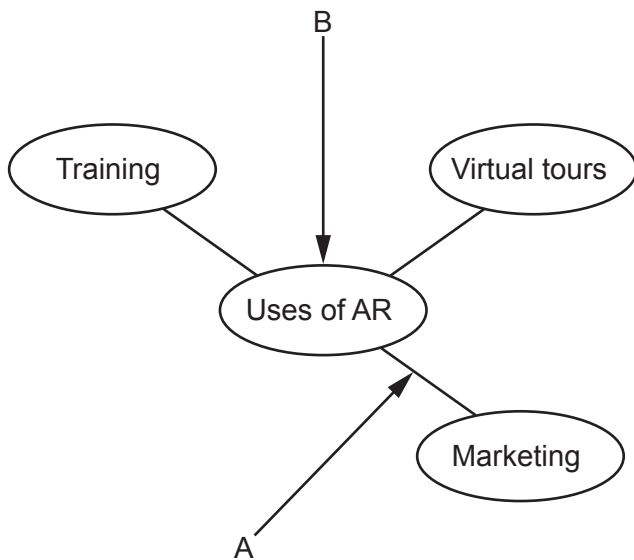
- Book
- Email
- Report

..... is a primary data collection method. [1]

8 Which connectivity method means devices cannot be moved?

..... [1]

9 Identify the components of the mind map template labelled **A** and **B**.



A

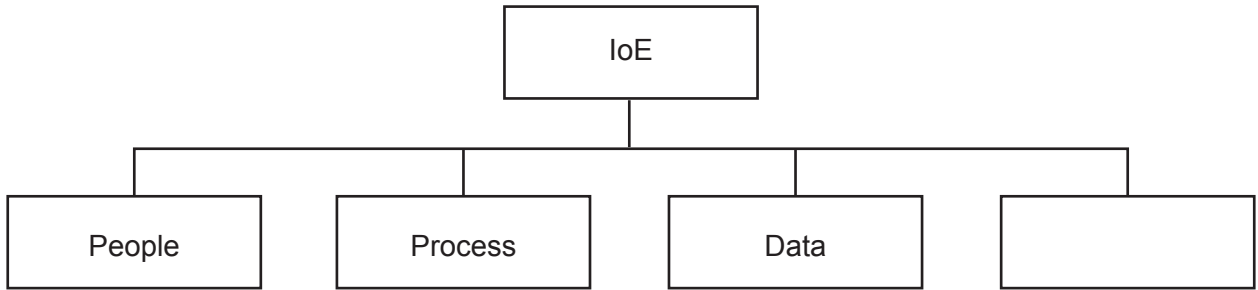
B

[2]

10 Which cyber-security attack means users cannot access a website?

..... [1]

11 Complete the following diagram to identify the **fourth** pillar of the Internet of Everything (IoE).



[1]

12 Identify **one** type of **resource** hardware consideration when developing a Human Computer Interface (HCI).

..... [1]

Section B

An online booking system is being created for a sports centre. An app is being developed to book the facilities which include a gym, tennis courts and indoor football pitches.

13 Customers will need to use the app to register with the sports centre and book the facilities.

(a) Identify **two** digital devices that this app could be used on.

1

2

[2]

(b) Customers need to set up Two-Factor Authentication (2FA) for using the app.

Describe how 2FA works.

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

14 The sports centre booking app will include a Human Computer Interface (HCI).

(a) Explain **one** advantage **to the customer** of the booking app having an HCI.

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

(b) Explain **one** reason why **display size** should be considered when designing the booking app HCI.

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

(c) Explain **one** advantage **to the customer** of using voice to interact with the booking app HCI.

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

(d) Other than voice, describe **one other** user interaction method that could be used with the HCI.

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

15 After a customer logs in to the app, the first screen they see is the booking screen dashboard.

(a) Identify **two** advantages of using a **visualisation diagram** to plan the booking screen dashboard.

1

.....

2

.....

[2]

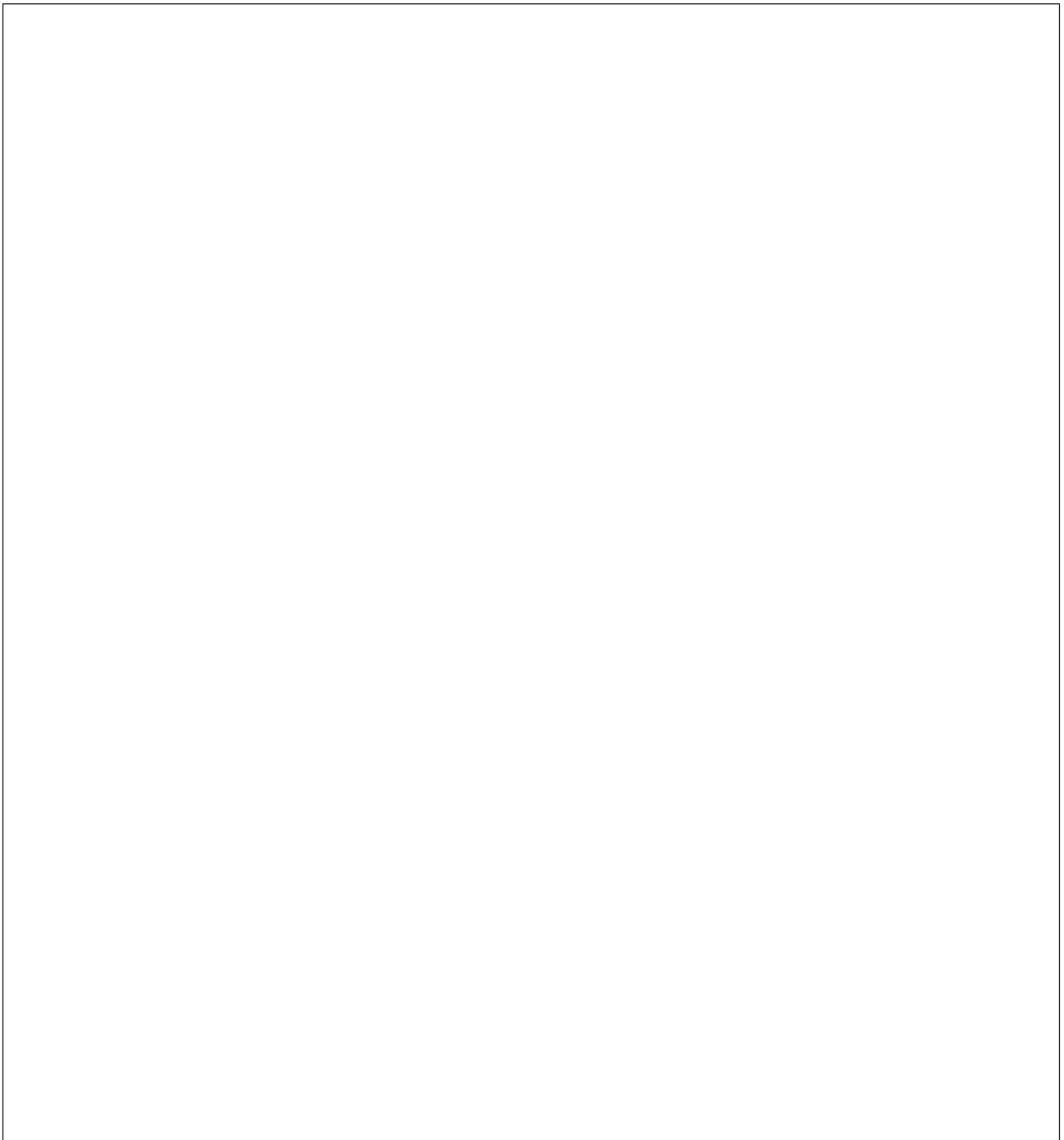
(b) The information that can be shown on the booking screen dashboard includes:

- username and photograph
- making a booking
- current bookings
- past bookings.

Create a **visualisation diagram** to plan the content and layout of the booking screen dashboard.

Marks will be awarded for:

- content
- layout.



[8]

16 When a customer makes a booking they are required to enter the data for the booking they want. Data requirements include:

- Activity: fitness gym, badminton, football, yoga.
- Bookings can only be a maximum of 4 weeks in advance.
- Customers must confirm their contact email address.

An example of the data required is shown below:

Data Field	Example Data
Activity	Yoga
Date	01/11/2027
Start time	18.00
Contact email address	taylrLng@FstMail.com

Complete the table to show the **data validation tool** that would be used for each data field in the app.

Justify **each** of your choices.

Data Field	Example Data	Data Validation Tool	Justification
Activity	Yoga
Date	01/11/2027
Contact email address	taylrLng@FstMail.com

[9]

17 After a customer has signed up to use the app they will receive instructions about how to use it.

(a) Explain **one** advantage and **one** disadvantage **to the customer** of receiving the app instructions through a multimedia distribution channel.

Advantage

.....

.....

.....

Disadvantage

.....

.....

.....

[4]

(b) Identify **two** types of digital communication that could be used **with** the multimedia distribution channel.

1

2

[2]

18 When a booking is made the app will store the data in a spreadsheet that is stored in the cloud.

(a) Explain **one** advantage and **one** disadvantage **to the sports centre** of storing the data in the cloud.

Advantage

.....

.....

.....

Disadvantage

.....

.....

.....

[4]

(b) The sports centre keeps a physical secure backup of the booking data.

Describe how Network-Attached Storage (NAS) could be used to store the physical secure backup of the data.

.....

.....

.....

.....

[2]

(c) Identify **two other** external storage devices that could be used to store the secure backup of the data.

1

2

[2]

(d) The stored data is protected using different prevention measures.

Complete the following sentence using **one** term from the list below:

- Anti-virus
- Encryption
- RFID
- Username

..... is a physical prevention measure.

[1]

.....

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END OF QUESTION PAPER

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