OCR
Oxford Cambridge and RSA

Thursday 23 May 2024 – Afternoon

Level 3 Cambridge Technical in IT

05839/05840/05841/05842/05877 Unit 3: Cyber security

INSERT

C387/2406

INSTRUCTIONS

- Do **not** send this Insert for marking. Keep it in the centre or recycle it.

INFORMATION

- This Insert contains the pre-release material that you have already seen.
- This document has **4** pages.

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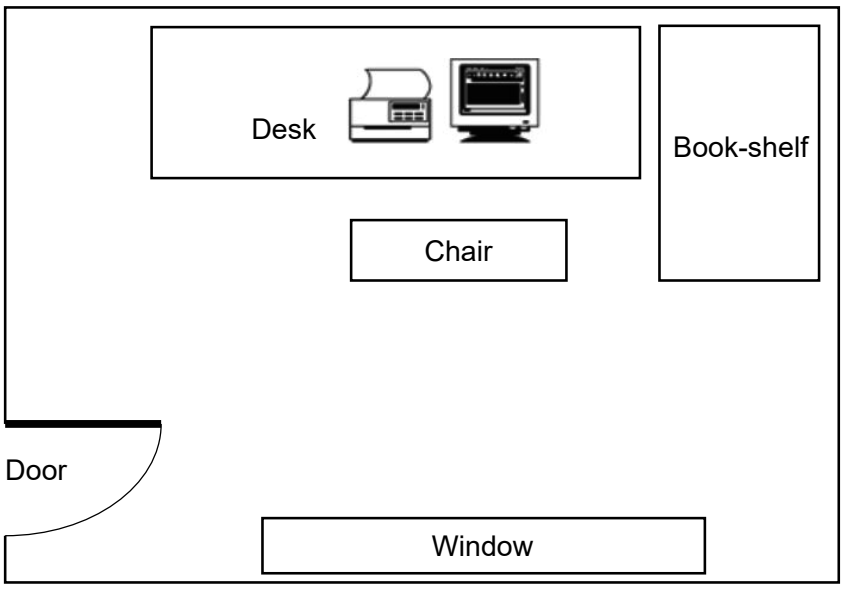
Charlie's Home Network

Charlie has recently moved house. The house is in a residential street, with houses on both sides of the road.

Charlie has decided to set up a home office and network in the house and has purchased a second-hand router from a car boot sale. The router still has the default administrator username and password so the configuration settings can be accessed.

The home office is situated on the first floor at the front of the house. The house has a small number of power sockets so Charlie has to use multiple extension leads to power electrical devices.

Home Office Setup



When working, Charlie has the window to their back. The computer is often left switched on for long periods of time.

Charlie has made friends with the people who live in the house on the other side of the street. They have one teenager who is studying computing at a local college.

Being new to the area, Charlie has joined a number of local groups to get to know people in the neighbourhood.

Charlie suspects that their home network has been hacked.

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Further research

To prepare for the exam, you should research the following themes:

- The aims of cyber security and measures Charlie can implement to ensure the network continues to function.
- The types of cyber security incidents that Charlie is vulnerable to.
- The types and motivations of attackers that would target a home network.
- How cyber security incidents can disrupt Charlie's life.
- The impact on Charlie of the home network being hacked.
- How Charlie can conduct an audit of their network to prevent future incidents.
- The tools and techniques Charlie could use to test the security of their home network.

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