

Networks and the effects of using them – 2022 ICT IGCSE 0417

1. **March/2022/Paper_12/No.5**

The World Wide Web (WWW) is often mistaken for the internet.

(a) Explain the differences between the WWW and the internet.

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(b) The web address for Cambridge IGCSE is:

<https://www.cambridgeinternational.org/IGCSE>

Describe the following parts of the web address.

https://

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cambridgeinternational

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.org

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/IGCSE

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[4]

2. March/2022/Paper_12/No.13

A family has a number of different devices connected to the internet.

(a) Identify **three** items of computer hardware that may need to be purchased in order to set up a computer network so the devices can use the internet.

- 1
- 2
- 3

[3]

(b) Arjun is a member of the family. He uses the internet to carry out research and send work to his office.

Describe **three** other ways he could make appropriate use of the internet.

- 1
- 2
- 3

[3]

(c) Arjun uses the internet to carry out research for his work.

Describe **two** drawbacks of Arjun using the internet for research.

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[2]

(d) Arjun can log directly into his office system from his home computer. The office system only requires users to enter their user id and a password.

(i) Explain why this is **not** very secure.

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(ii) Describe **two** other ways the office system could identify the user securely.

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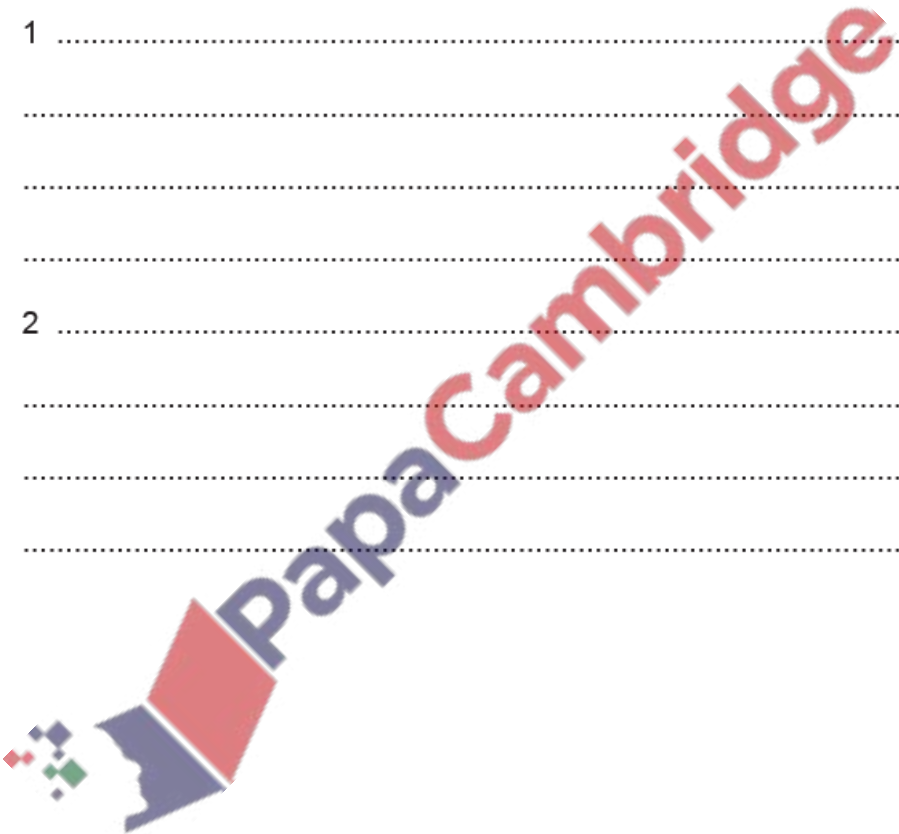
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[4]



3. June/2022/Paper_11/No.1

A tablet computer consists of both hardware and software.

(a) Define the term hardware.

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(b) One input device used on a tablet computer is a touch screen.

Name **two** other input devices built into a tablet computer.

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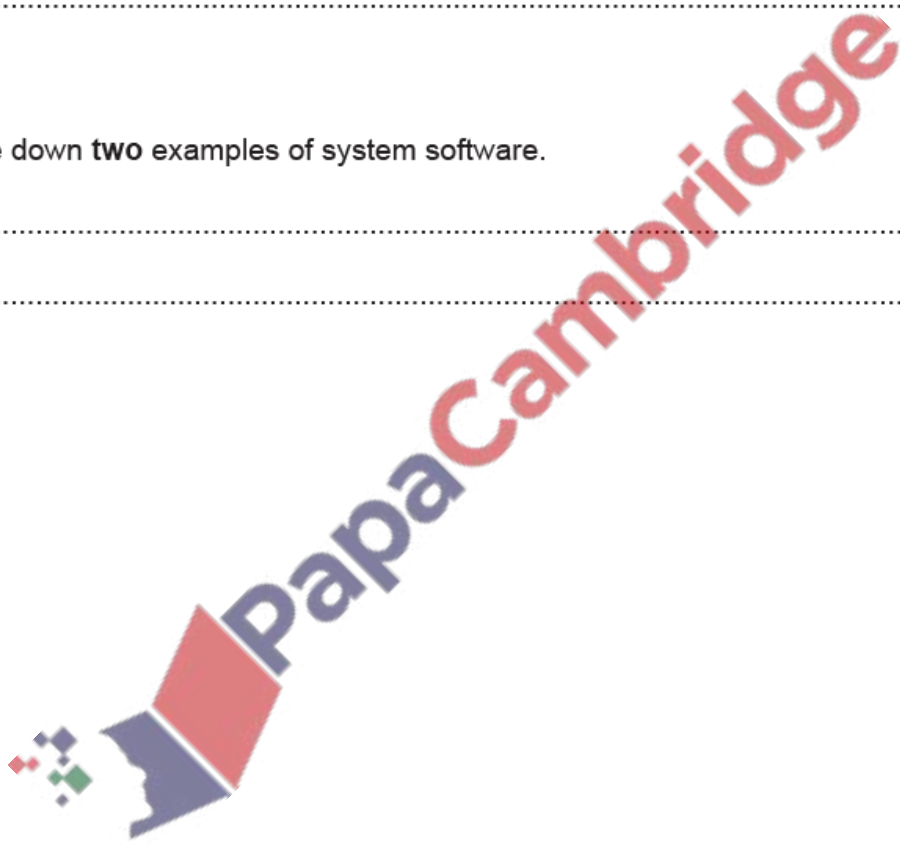
[2]

(c) Write down **two** examples of system software.

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[2]



4. June/2022/Paper_12/No.3

Identify **two** devices which are used in control systems.

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[2]

5. June/2022/Paper_12/No.8

Uniform Resource Locators (URL) are used to locate websites and resources. A teacher needs to find a teaching guide from Cambridge Assessment International Education. To download the teaching guide she types in:

<https://www.cambridgeinternational.org/igcse-ICT-0417/2193733.pdf>

(a) Write down only the part of the URL which shows the file name of the teaching guide.

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(b) Write down only the part of the URL which is the folder where the teaching guide is stored.

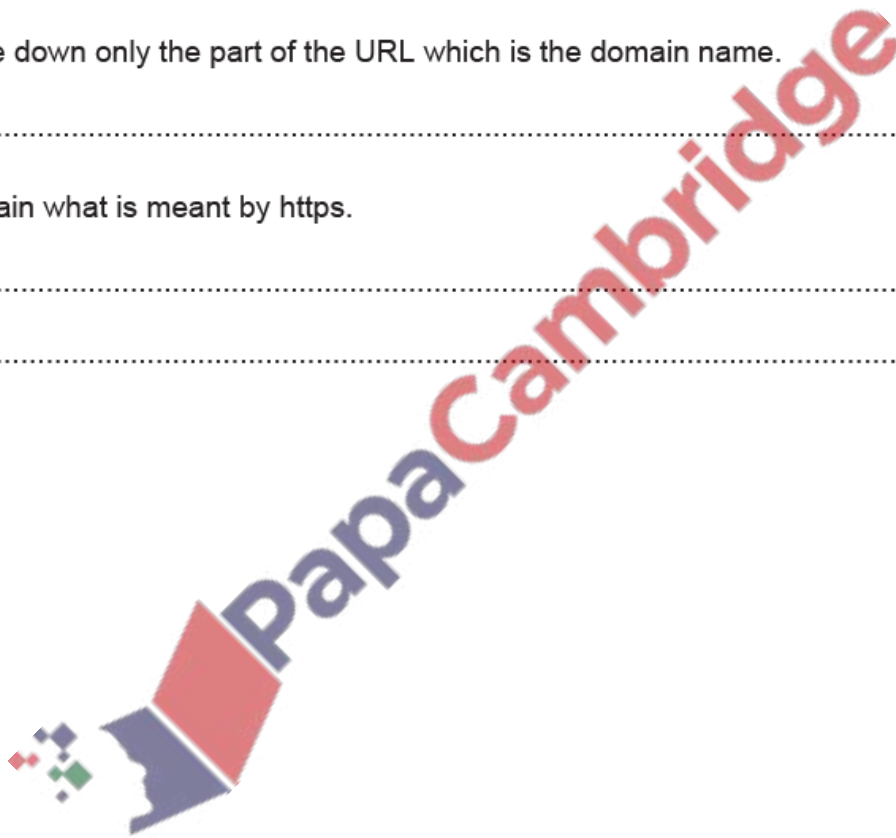
..... [1]

(c) Write down only the part of the URL which is the domain name.

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(d) Explain what is meant by https.

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6. June/2022/Paper_13/No.9

The Internet of Things (IoT) allows devices as well as computers to connect to the internet using a router. Each device uses an IP address.

(a) Explain what is meant by an IP address.

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(b) Explain how a router sends data packets to another network.

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(c) The network has a firewall.

Explain why a firewall is needed.

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7. June/2022/Paper_13/No.10

Both the internet and the intranet are used for communication.

(a) Define the terms internet and intranet.

(i) Internet

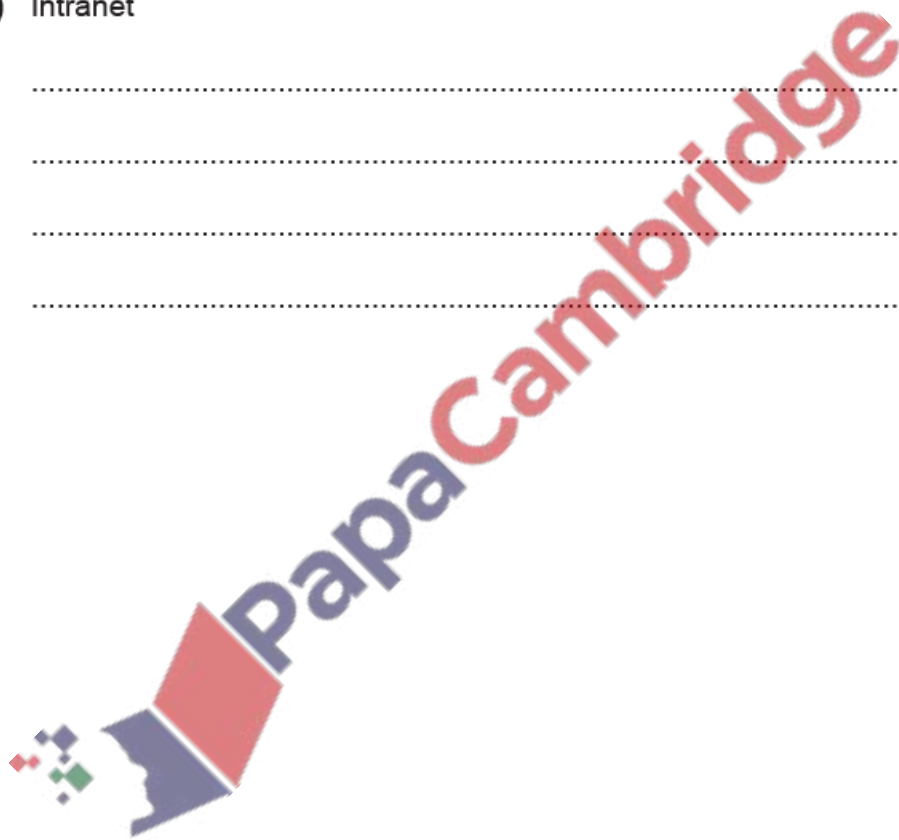
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[2]

(ii) Intranet

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(b) The World Wide Web is part of the internet.

Explain why the World Wide Web has become so popular.

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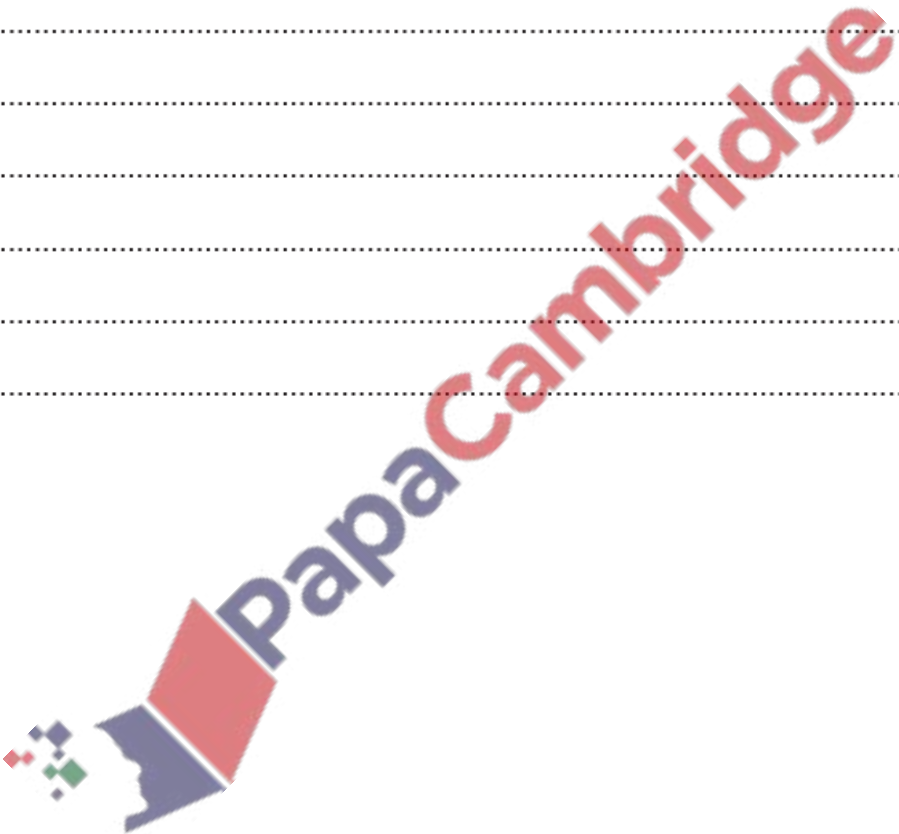
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8. Nov/2022/Paper_11/No.9

Use of smartphones to access the internet has increased by over 200% in the past five years.

Compare the use of smartphones to access the internet with the use of desktop computers to access the internet. Your answer must include similarities and differences.

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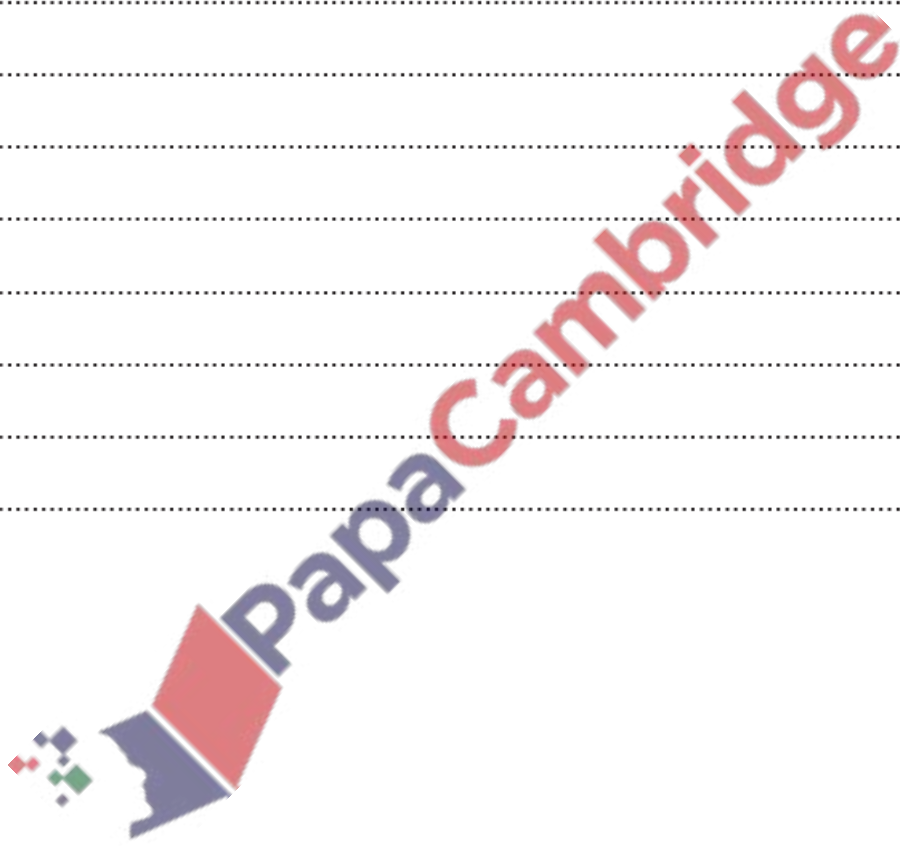
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9. Nov/2022/Paper_12/No.10

High street banks now offer customers access to internet banking when they are in the physical bank.

Discuss the advantages and disadvantages to the bank of using internet banking in this way.

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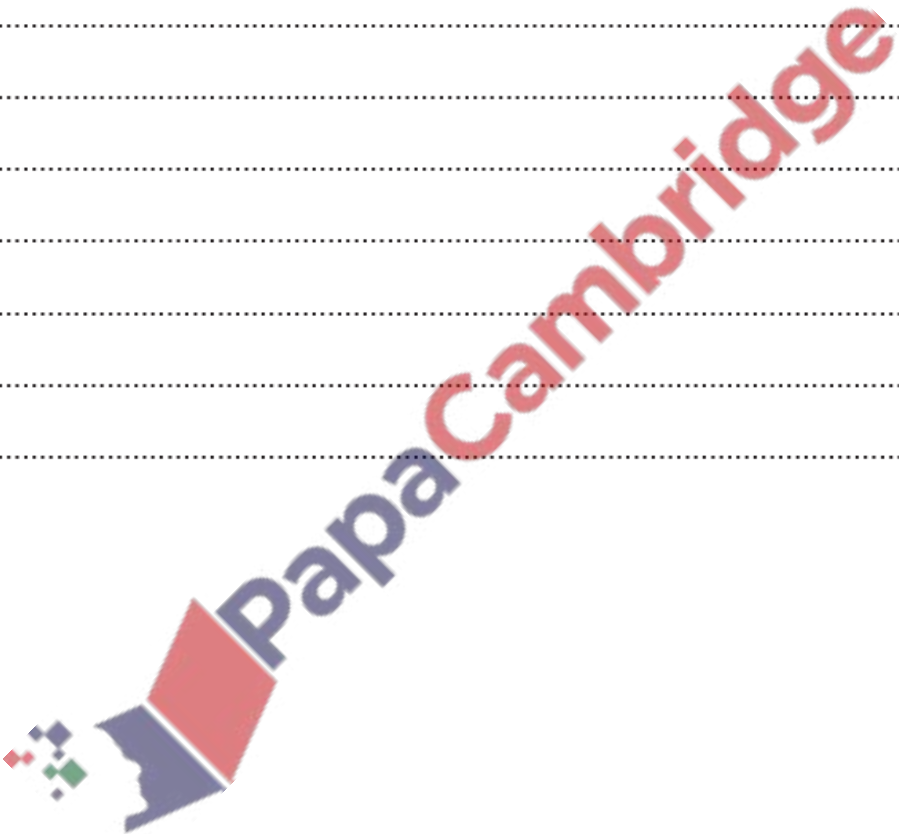
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10. Nov/2022/Paper_13/No.11

A student is carrying out some research for school.

(a) Explain **two** ways she could search for information on the World Wide Web (WWW).

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(b) Explain the differences between the internet and the World Wide Web (WWW).

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