

1. **March/2023/Paper_0417/12/No.4(b)**

(b) Social media can be used to communicate with friends.

Give **four** precautions that young people should take when using social media.

1

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2

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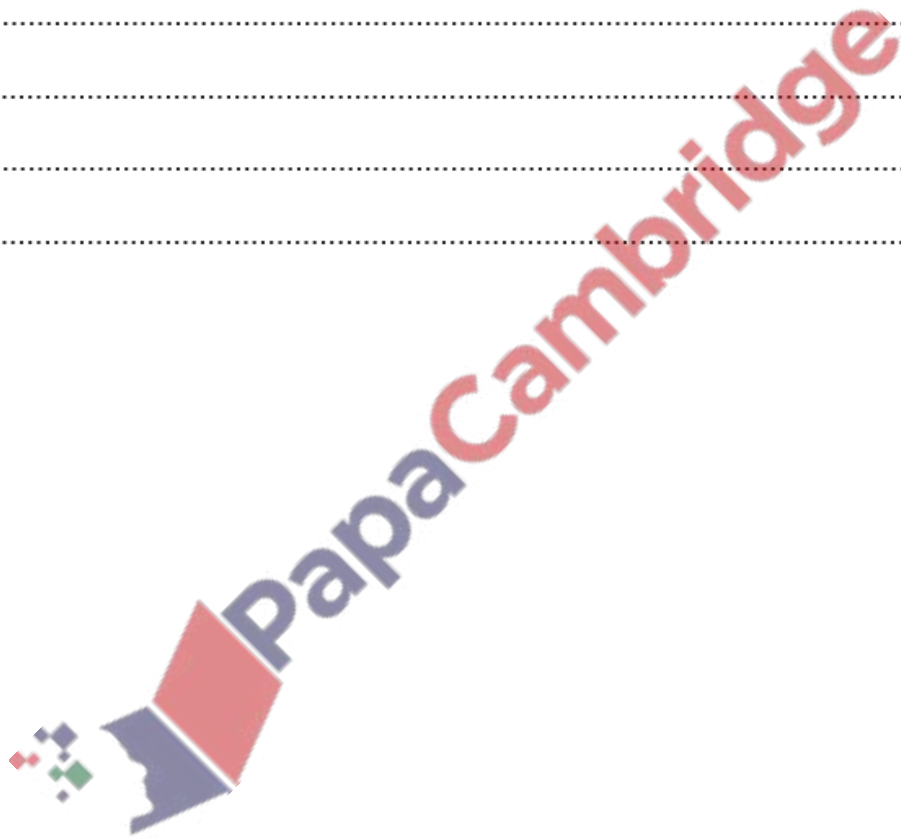
3

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4

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[4]



2. **March/2023/Paper_0417/12/No.11(a, b, c)**

A student has downloaded a file which contains a virus.

(a) Describe the possible effects on his computer system if he opens the file.

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[2]

(b) Explain how the student could prevent the computer from being infected by viruses.

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[3]

(c) Some files containing viruses have to be quarantined as they cannot be deleted.

(i) State the type of files that may have to be quarantined rather than deleted.

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[1]

(ii) Explain how the software detects and quarantines the file.

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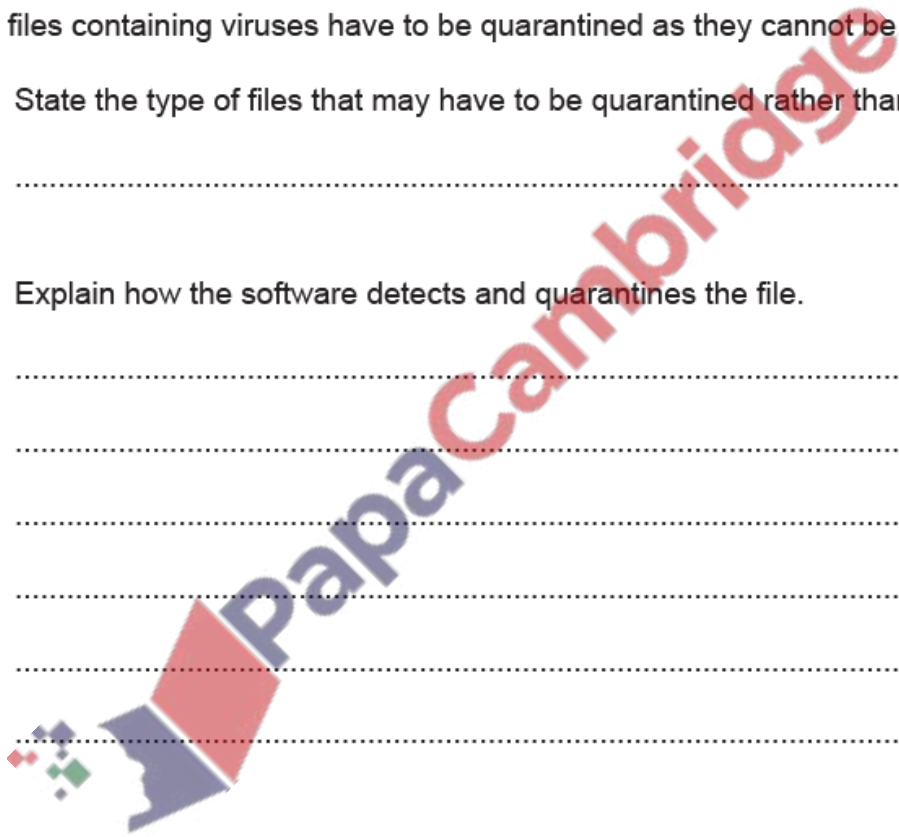
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[3]



3. June/2023/Paper_0417/11/No.5

State the safety issue that is most likely to occur for each of these causes.

(a) Spilling drinks on computer equipment

..... [1]

(b) Overloading sockets by plugging in too many devices

..... [1]

(c) Trailing cables across the floor

..... [1]

(d) Placing a laser printer at the edge of a table

..... [1]
..... [1]

4. June/2023/Paper_0417/12/No.5

State which health issue is most likely to occur from each description shown. Your answer must be different in each case.

(a) typing on a keyboard for long periods of time

..... [1]

(b) looking at a computer screen for a long time

..... [1]

(c) sitting with poor posture

..... [1]

5. June/2023/Paper_0417/12/No.6(a, b, c)

A company requires its employees to regularly change their login passwords for the company's computer systems. Passwords must be strong and cannot be reused.

(a) Explain **three** problems that may occur when the employees change their passwords regularly.

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[6]

(b) The company has a website which uses a digital certificate.

Explain the purpose of the digital certificate.

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[1]

(c) A digital certificate is attached to an email.

State **three** items contained in a digital certificate.

1

2

3

[3]

Two-factor authentication can use a number of different forms of identification.

- (a) One form of identification is to use 'where the user is'.
An example of this would be the user's GPS location.

State **two** other forms of identification. Give an appropriate example of each.

1

Example

2

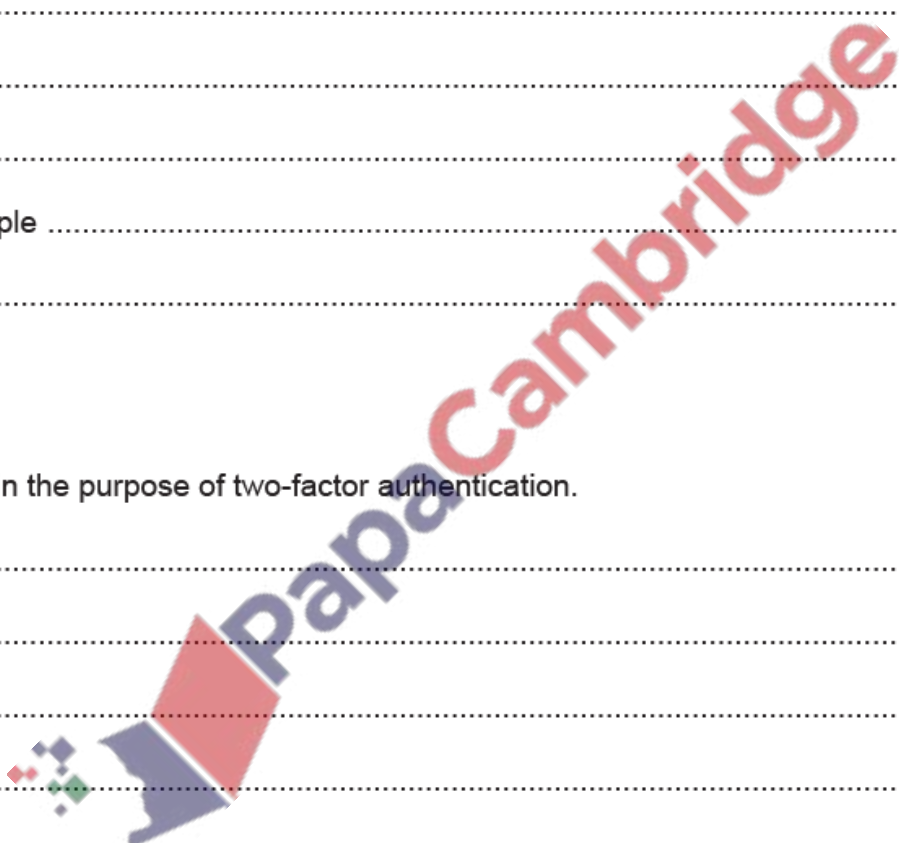
Example

[4]

- (b) Explain the purpose of two-factor authentication.

.....

[2]



An employee in a company has used QWERTY123 as his login password for some time.

(a) Give **three** reasons why this is **not** advisable.

1

2

3

[3]

(b) Complete the sentences using the most appropriate data protection method from the list. Your answers must be different in each case.

Anti-spyware

Biometrics

A digital certificate

A dongle

Encryption

A firewall

Two-factor authentication

User ID

(i) A method which scrambles the data so that it cannot be understood is

..... [1]

(ii) A fingerprint is an example of

..... [1]

(iii) A method of guaranteeing a website is authentic is

..... [1]

(iv) A hardware device that filters the information coming through the Internet connection into a LAN is

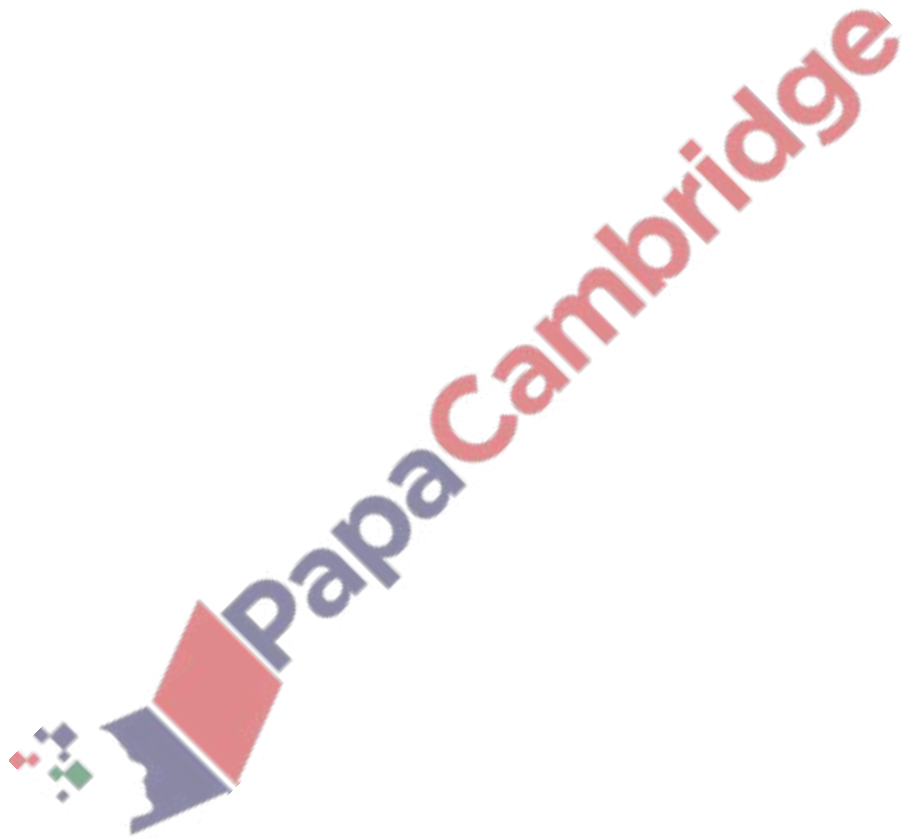
..... [1]

(c) An employee in the company uses his company password for other accounts.

Explain why this is **not** a good idea.

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[1]



9. March/2024/Paper_0417/12/No.8

A student has been the victim of a vishing scam.

(a) Explain what is meant by the term vishing.

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[2]

(b) Describe two methods that help to prevent vishing.

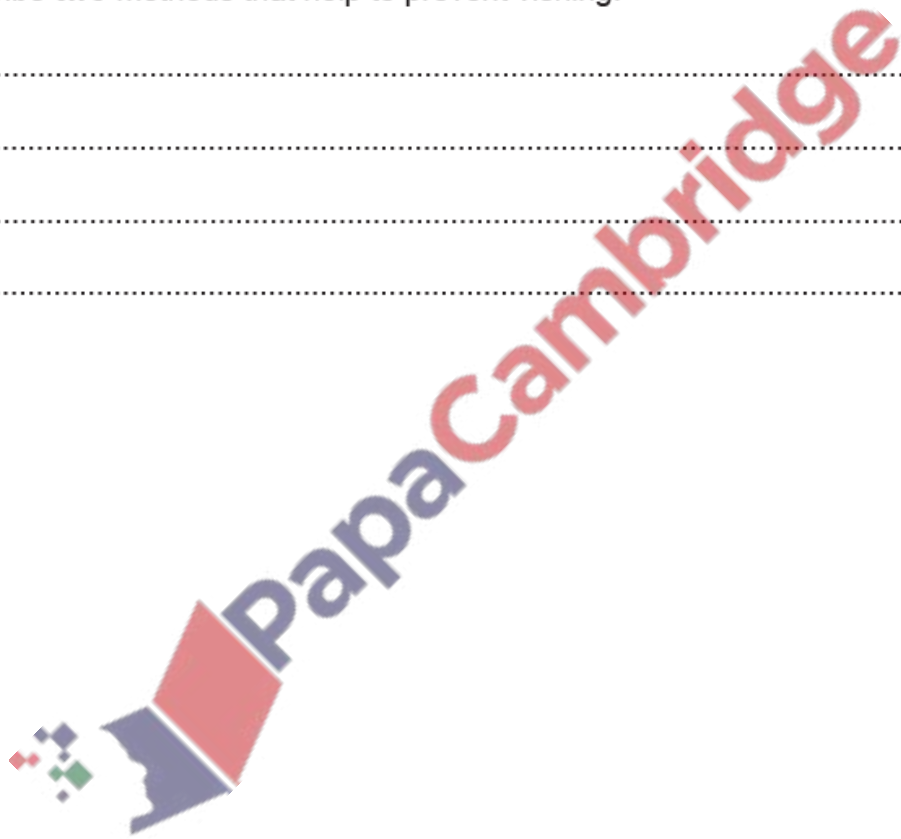
1.....

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2.....

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[2]



(a) State four characteristics of spam emails.

1

2

3

4

[4]

(b) Give two ways of reducing spam emails.

1

2

[2]

