

1.2 Suspicious Website Logins

Name: _____ Class: _____ Date: _____ **Total: 11 marks**

KEY WORDS authentication 身份验证 • password attack 密码攻击 • mfa 多因素身份验证
• password manager 密码管理器 • dictionary 字典

Objective

Build the skills to answer exam questions on **password attacks** 密码攻击 and stronger **authentication** 身份验证.

You must be able to:

- identify signs of an online password attack in a log
- explain why weak, patterned passwords fail
- recommend stronger authentication: long unique passwords and **MFA** 多因素身份验证

1 Worked examples

Study these first. Each one shows the method for a task used later.

■ **Signs in the log**

An online password attack shows many failed logins in a short time, logins at unusual hours, or logins from unknown devices.

■ **Making authentication stronger**

Use long, random, unique passwords (a password manager helps), avoid names and dates, and enable multifactor authentication so a stolen password alone is not enough.

2 Practice

2.1 State two signs, visible in a log, of an online password attack. [2]

2.2 Explain why a password like Summer2024! is weak. [2]

2.3 State two ways to make authentication stronger. [2]

3 Exam-style questions

3.1 Which log pattern most strongly suggests an online password attack? [1]

- A

B

C

D
- A one successful login

B many failed logins in a short time

C a file download

D a printer coming online

3.2 Which is the strongest password? [1]

- A

B

C

D
- A your dog's name

B P@ssword!

C a 16-character random string

D your birthday

3.3 A company wants to reduce account takeovers.

- (a) Name one authentication improvement they could require. [1]

(b) Explain how it helps even if a password is stolen. [2]