

# 2.4 Detecting Physical Attacks

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_ **Total: 10 marks**

**KEY WORDS** motion sensors 运动传感器 • points of ingress and egress 出入口  
• physical attacks 物理攻击 • physical 物理 • piggybacking 尾随（获许可）

## Objective

Build the skills to answer exam questions on detecting physical attacks and placing detection controls well.

**You must be able to:**

- list controls that detect physical attacks: cameras, guards, motion sensors
- explain why placement (entrances, low-traffic areas) matters
- read entry logs (door-open times) for signs of piggybacking

## 1 Worked examples

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

### ■ Placement matters

Cameras belong at points of ingress and egress. Motion sensors belong in low-traffic sensitive areas like server rooms - in a busy hallway they cause constant false alarms and get ignored.

### ■ Reading entry logs

A door that normally opens for 2 seconds but stayed open 15 seconds is a clue that someone piggybacked through behind an authorised employee.

## 2 Practice

**2.1** State two controls that DETECT (rather than prevent) physical attacks. [2]

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**2.2** Explain why a motion sensor should not be placed in a busy hallway. [2]

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**2.3** An entry log shows a secure door was held open for 20 seconds, far longer than normal.

(a) State what this could indicate. [1]

(b) Explain your reasoning. [1]

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## 3 Exam-style questions

**3.1** Where are cameras MOST useful for detecting physical attacks? [1]

- **A** inside a locked safe
- **B** at points of ingress and egress
- **C** facing a blank wall
- **D** in an empty closet

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**3.2** A stationary guard is best placed [1]

- **A** patrolling a large perimeter
- **B** at a point that funnels traffic, like a main entrance
- **C** in a distant unused room
- **D** outside the property boundary

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**3.3** A company installs cameras and motion sensors.

(a) State one advantage of pairing cameras with motion sensors. [1]

(b) State the best placement for the motion sensors. [1]

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## Solutions

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**2.1** any two of: cameras; security guards; motion sensors.

**2.2** constant movement causes many false alarms, so staff stop taking the alerts seriously.

**2.3** (a) piggybacking / tailgating. (b) a door held open unusually long suggests an extra person passed through.

**3.1 B.** entrances and exits capture who comes and goes.

**3.2 B.** a fixed guard is effective where traffic is funnelled.

**3.3** (a) when a sensor triggers, defenders can use the camera to verify a real breach. (b) in low-traffic sensitive areas such as server rooms.