

LIBRARY GUIDE

Security Control *and* Management

EXAMINATION PRACTICE QUESTIONS & CASE STUDIES

Instructions to Students:

- Answer all questions in Section A (short answer).
- Answer **two** of the three questions in Section B (essay).
- Answer **both** case studies in Section C.
- Time allowed: 3 hours (mock exam condition).
- Total marks: 100 (Section A: 30, Section B: 30, Section C: 40).

Section A – Short Answer Questions (30 marks)

Answer all questions. Each question is worth 5 marks.

1. List **five** essential features of an effective Security Identification Permit System.
2. What are the key differences between a **coded card system** and a **PIN-based system** in Automatic Access Control Systems (AACS)?
3. Name **three** types of detection technologies used for explosives and weapons (other than metal detectors and X-ray).
4. Describe the correct procedure when a person **refuses to be screened or searched** at a facility entrance.
5. What are the **minimum standards** for CCTV system considerations mentioned in Unit Two?
6. Explain the difference between **deterrence** and **detection** in security measures, giving one example of each.

Section B – Essay Questions (30 marks)

Answer any two questions. Each question is worth 15 marks.

Question B1 – Physical Security Measures

Discuss the role of **external perimeter security measures** in protecting a facility.

Your answer must include:

- A comparison of fences and Perimeter Intrusion Detection Systems (PIDS).
- The contribution of security lighting to perimeter protection.
- How CCTV can be integrated with other measures to improve detection.

Question B2 – Automatic Access Control Systems (AACS)

Analyse the **advantages and disadvantages** of implementing an AACS in a medium-sized office building. Also describe the key management responsibilities for maintaining such a system (e.g., user administration, handling lost cards, integration with intruder detection).

Question B3 – Screening of Persons and Baggage

Explain the **limitations of hand search** compared to X-ray screening of baggage. Then outline the step-by-step procedure for:

- Searching a person.
- Handling the discovery of a prohibited article during baggage screening.
- Recording confiscated items.

Section C – Case Studies (40 marks)

Answer both case studies. Each case study is worth 20 marks.

Case Study 1 – Permit System Weaknesses

Situation:

You are the newly appointed Security Manager at a large corporate campus. The current Security Identification Permit System has the following problems:

- Employees often forget their permits at home and ask security to let them in.
- Several lost permits were never reported.
- Visitors are issued temporary paper permits that are easily forged.
- No background checks are conducted before issuing permits.
- Permits are worn in inconsistent locations (some on belts, some on lanyards, some in wallets).

Tasks:

1. Identify **four specific weaknesses** in the current system. (4 marks)
2. For each weakness, recommend a **corrective measure** based on Unit One content. (8 marks)
3. Describe the **collection and briefing** process you would implement for new permit holders. (4 marks)
4. Outline the procedure for handling **theft or misuse** of a permit. (4 marks)

Case Study 2 – Detection Equipment and Screening Failure

Situation:

A regional airport has experienced a security breach. A passenger passed through screening with a prohibited weapon. The post-incident review found:

- The walk-through metal detector had not been calibrated for six months.
- X-ray operators were not rotated and became fatigued.
- Vapour and trace detection equipment was available but not used.
- Hand search of baggage was performed only when the X-ray operator saw something “suspicious,” but no clear criteria existed.
- No procedure existed for passengers who refused screening; they were simply waved through.

Tasks:

1. Explain how the lack of **equipment maintenance** (metal detector) contributed to the breach. (4 marks)
2. Why is **operator rotation** important for X-ray screening effectiveness? (4 marks)
3. Suggest **two detection technologies** (from Unit Six) that could have helped detect the weapon and explain why they would be effective. (4 marks)

4. Write a short **standard operating procedure (SOP)** for handling a person who refuses to be screened. (4 marks)
5. Describe a proper **hand search of baggage** procedure as a backup to X-ray. (4 marks)

Marking Guidelines (For Self-Assessment)

Section	Marks	Key Focus Areas
A (short answer)	30	Precision, listing correct items, brief but complete explanations
B (essay)	30	Structure, use of terminology, application to scenarios, depth
C (case study 1)	20	Identification of issues, linkage to course content, practical recommendations
C (case study 2)	20	Analysis of failure modes, procedural knowledge, SOP writing

Suggested Answers (Unofficial – For Study Only)

Note to student: Answers below are summaries. Your own answers should be more detailed and employ terminologies taught in module.

Section A (sample answers):

1. Five features: (1) secure permit design, (2) background checks, (3) control of loss/theft, (4) proper wearing/display, (5) permit administration.
2. Coded card system – requires card + reader; PIN system – requires knowledge of number. Coded cards can be shared/stolen; PIN can be observed. AACS often combines both.
3. Nuclear detection systems, vapour/trace detection, optical detection aids.
4. Explain security policy, offer alternative (hand search), if still refuse – deny entry, call supervisor, follow legal protocols.
5. Minimum standards: resolution, recording capability, coverage areas, lighting compatibility, retention period, maintenance schedule.
6. Deterrence (e.g., visible fence, signs) – discourages attack. Detection (e.g., PIDS, CCTV) – identifies actual intrusion.


For Case Studies – refer to unit on Permit System and Units on Detection, Screening, Refusal Procedures. Ensure you cite specific terms from the module.

Good luck with your practice! Use this paper alongside your study guide to test your knowledge under exam conditions.


Additional Support

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