4.2 HL: Paper 3 practice

Name: _____ Class: _____ Date: _____ **Total: 30 marks**

KEY WORDS pre-released statement • recommendation • false alert • civil liberties

Objective

Practise **Paper 3**: respond to a **challenge** set in a pre-released statement and a case, analyse it, evaluate interventions and **recommend** a course of action, using the HL extension and your own examples.

You must be able to:

- identify the challenge and the stakeholders in a case
- analyse causes and impacts of the challenge
- evaluate interventions with criteria
- write a justified recommendation
- manage time across the paper

1 Key knowledge and worked examples

■ The case (written for practice)

A city council plans to put AI cameras on buses to detect fare dodgers and "anti-social behaviour". The supplier says the system is 95 % accurate. A civil-liberties group says passengers were not asked, that the data could be shared with police, and that error rates are higher for some groups. Bus drivers' unions support the plan because of attacks on drivers.

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■ **How to read it**

ask	in the case
challenge	safety and fare loss on buses vs privacy and fairness
stakeholders	council, supplier, passengers, drivers, police, civil-liberties group
claims to check	"95 % accurate": for whom? how many false alerts?
possible interventions	the cameras; more staff; cameras without AI; strict data rules

■ **Accuracy and false alerts**

If 20,000 passengers ride each day and the system wrongly flags 1 % of innocent passengers, that is about 200 false alerts per day. A high accuracy figure can still mean many people wrongly treated as suspects.

2 Practice

2.1 Identify **two** stakeholders in the case and the interest of each. [2]

2.2 20,000 passengers ride each day. The system wrongly flags 1 % of innocent passengers. Assuming nearly all passengers are innocent, calculate the false alerts per day, and explain why the "95 % accurate" claim is not enough to judge the system. [3]



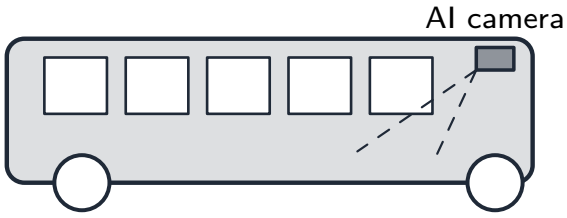
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2.3 Explain **two** ways the council could reduce the risks to privacy if it uses the cameras. [4]

2.4 Compare **two** interventions for driver safety: AI cameras, and more staff on buses at night. [6]

3 Exam-style questions

3.1 *(Paper 3 style.)* Recommend whether the city council should introduce the AI cameras. Justify your recommendation with reference to the case, the HL extension and **one** real-world example. [15]



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