

1. A computer programmer has developed a computer game that they want to release for users to download over the internet. The programmer needs to decide whether to release the game as open source or proprietary software.

Discuss the features, benefits and drawbacks of each type of licence for this program and make a recommendation to the programmer.

You should include the following in your answer:

- features of each licence
- legal and ethical issues of each licence
- benefits and drawbacks of each licence.

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[8]

2. An artist is working with a programmer on the development of a new piece of software.

The software will allow users to edit images on devices such as mobile telephones.

They are considering releasing the software as open source instead of proprietary.

- i. Describe **two** benefits to the artist and programmer of releasing the software as proprietary.

1

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[4]

ii. Describe **one** benefit to the users of releasing the software as open source.

[2]

**3.** A shopping centre has a security system that includes CCTV cameras to record activities in the centre. The security system is being upgraded to include the use of facial recognition to identify, track the movements of and record individuals throughout the shopping centre.

Discuss the positive and negative impacts of this upgrade including:

- ethical issues
- privacy issues
- legal issues

[8]

Discuss the positive and negative uses of AI by social networking websites including:

- Legal issues
- Ethical issues
- Privacy issues

[illegible]

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[8]

5. Tick (✓) **one** box on each row to identify the legislation that would cover each of the given events.

Event	The Data Protection Act (2018)	Computer Misuse Act (1990)	Copyright Designs and Patents Act (1988)
A company transmits personal data to another company without the individual's permission.			
A school accidentally publishes their students' addresses on the school website.			
The interface for a piece of software is replicated by a rival company.			
A user leaves a computer logged on and another person leaves them a message on their desktop.			
A student guesses their teacher's password and accesses their computer account.			

[5]

6. Layla is an artist. She draws images by hand. The image is then scanned and stored on a computer.

Layla wants to protect her images so they cannot be copied by other people.

Identify which legislation can help protect Layla's images.

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[1]

7. Eve's computer has system software including an Operating System and Utility Software.

Eve uses a computer to write a computer game. She wants people to be able to download her program online.

Eve is choosing between an open source and proprietary licence.

- i. Give **two** benefits to the customers of Eve choosing an open source licence.

1

2

[2]

- ii. Give **two** benefits to Eve of choosing a proprietary licence.

1

2

[2]

Discuss the impact of digital technology on medicine including:

- diagnosing patients
- treating patients
- storage of records.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

**9.** A law company currently use a Local Area Network (LAN) linked to a Wide Area Network (WAN). They want to upgrade their system to utilise cloud storage.

**Fig. 2** lists some actions that may take place in the law company's office.

Tick (✓) **one** box in each row to show which legislation applies to each action.

Action	Data Protection Act 2018	Computer Misuse Act 1990	Copyright Designs and Patents Act 1988
Using a picture for the law company's new logo without the original creator's permission.			
A secretary accessing a lawyer's personal email account without permission.			
Making a copy of the latest Hollywood blockbuster movie and sharing it with a client.			
Storing customer data insecurely.			
A lawyer installing a key logger on the secretary's computer.			
Selling client's personal legal data to a marketing company without their permission.			

**Fig. 2**

