

1(a). Government bodies have been given additional powers under the Regulation of Investigatory Powers Act.

State **three** additional powers that this law gives to some government bodies.

1

2

3

[3]

(b). An investigative firm wants to start investigating cyber security issues. As part of their new roles, employees will be accessing personal data. In order to facilitate this, all employees are enrolled on a course about the Data Protection Act.

Identify **three** principles of the Data Protection Act.

1

2

3

[3]

2(a). A team of programmers create a robot that will be used in a factory. The robot will be able to do the work of multiple humans.

The programmers discuss whether to write the instructions for the robot in assembly language or a high-level language.

The robot provides a web-based interface for users. The home screen webpage for this interface is shown in **Fig. 4**.



Robot User Interface

Robot prime directives

- Serve the company trust
- Protect data
- Uphold standards

[Updates](#)

Login

Password

Fig. 4

- i. Complete this HTML code that will display the webpage shown in **Fig. 4**.

```
<html>
  <head>
    <title>Robot User Interface</title>
  </head>
  <body>
    <h1>Robot prime directives</h1>
    .....
    <li>Serve the company trust</li>
    <li>Protect data</li>
    <li>Uphold standards</li>
    .....
    <a ..... = "updates.html">Updates</a>
    <p>.....</p>
    <form action="dologin.php">
      Password
      <input type = "....." name="pw">
      <input type = ".....">
    </form>
  </body>
</html>
```

[5]

- ii. Write CSS code that could be used in an external stylesheet to format all text using the <h1> tag as white with a red background.

[3]

(b). The robot's web interface uses images that show the robot in action. These photographs have been taken using a digital camera.

The programmers do not want other people to download and use these images.

- i. State the name of **one** relevant piece of legislation and describe how this would protect these images.

Legislation _____

Description _____

----- **[3]**

- ii. For other areas of the web interface, the programmers need to use images that they have not created themselves.

Give **two** ways that they could make sure these images are used legally.

1 _____

2 _____

----- **[2]**

3. The Regulation of Investigatory Powers Act (2000) has been described as both a vital legal tool to ensure the public's safety and an attack on an individual's freedoms.

Evaluate the purpose and use of the Act.

You should include:

- the additional powers given under the Act
- to whom these powers are given
- the perceived benefits and/or drawbacks of the Act.

.....**[12]**

4. The Copyright Designs and Patents Act 1988 applies to all videos that are streamed.

Explain how this act applies to the videos.

.....**[2]**

Discuss the possible benefits and drawbacks of technology being used in this way.

- The benefits and drawbacks to both the customers and businesses
- Moral and ethical issues
- Legal issues

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

Discuss whether or not you agree with this statement.

Blank lined paper for writing.

7. * “When it comes to government electronic surveillance, if you have nothing to hide, you have nothing to fear.”

Discuss whether or not you agree with this statement. You should include:

- To what extent the UK government is able to monitor electronic communications of its citizens
- Technical measures citizens can take to help prevent their communications being monitored.

[9]

END OF QUESTION PAPER