1.7 Ethical, Legal, Cultural and Environmental Impact: 10-minute Pack

OCR J277 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Four scenarios below each relate to a different piece of UK legislation. For each scenario, write the letter of the act that applies most directly. Options: A) Computer Misuse Act 1990 B) Data Protection Act 2018 C) Copyright, Designs and Patents Act 1988 D) Freedom of Information Act 2000

(a) A student guesses a teacher's password and looks at exam papers stored on the school network. **(1)**

- ☐ A) Computer Misuse Act 1990
- ☐ B) Data Protection Act 2018
- ☐ C) Copyright, Designs and Patents Act 1988
- ☐ D) Freedom of Information Act 2000

(b) A company keeps a customer's home address on file for longer than needed and does not let the customer see or correct it. **(1)**

- ☐ A) Computer Misuse Act 1990
- ☐ B) Data Protection Act 2018
- ☐ C) Copyright, Designs and Patents Act 1988
- ☐ D) Freedom of Information Act 2000

(c) A YouTuber uploads someone else's song in a video without permission or credit. **(1)**

- ☐ A) Computer Misuse Act 1990
- ☐ B) Data Protection Act 2018
- ☐ C) Copyright, Designs and Patents Act 1988
- ☐ D) Freedom of Information Act 2000

(d) A journalist asks a local council for details of how public money was spent on a new road. **(1)**

- ☐ A) Computer Misuse Act 1990
- ☐ B) Data Protection Act 2018
- ☐ C) Copyright, Designs and Patents Act 1988
- ☐ D) Freedom of Information Act 2000

(Total for Question 1 is 4 marks)

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2 Ffion finds a spare staff login on a sticky note in her school's IT office. Out of curiosity, she uses it to look at other students' predicted grades stored on the school server. She does not change or delete anything.

(a) Identify which offence under the Computer Misuse Act 1990 Ffion's actions break. **(1)**

(b) Explain why Ffion is guilty of this offence even though she did not change or delete any data. **(2)**

(Total for Question 2 is 3 marks)

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3 Manufacturing new computer hardware, such as smartphones and laptops, has a significant impact on the environment. Describe three environmental impacts of manufacturing new computer hardware.

(Total for Question 3 is 3 marks)

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Mark scheme · 1.7 Ethical, Legal, Cultural and Environmental Impact: 10-minute Pack

Question 1

(a) A - unauthorised access to a computer system **B1**

(a) Answer: A

(b) B - storage limitation and right of access principles **B1**

(b) Answer: B

(c) C - unauthorised reproduction of copyrighted work **B1**

(c) Answer: C

(d) D - right to request information held by a public body **B1**

(d) Answer: D

Question 2

(a) unauthorised access to computer material (Section 1) (oe) **B1**

(a) Answer: Section 1: unauthorised access to computer material.

(b) she knowingly used a login that was not hers to view data she was not authorised to see **B1**

(b) the offence only requires intent to gain unauthorised access; it does not require any data to be changed, damaged or deleted **B1**

(b) Answer: She knowingly used a login that was not hers to access data she was not permitted to see; the offence is committed simply by gaining unauthorised access, regardless of whether any data is changed.

Question 3

extraction/mining of rare or precious metals damages landscapes and habitats **B1**

manufacturing processes use large amounts of energy, often from fossil fuels, releasing greenhouse gases **B1**

toxic chemicals used in production can pollute water, soil or air; accept transporting components/devices globally produces further emissions **B1**

Answer: Any three of: mining rare metals destroys habitats and landscapes; manufacturing uses large amounts of energy and releases greenhouse gases; toxic chemicals used in production can pollute water, soil or air; global transport of parts/devices adds further carbon emissions.

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