

3.8. Consequences of Uses of Computing – Test 2

1. a) Peer-to-peer networks are frequently used to share files on the Internet.
- i. Explain what a peer-to-peer network is. [1]
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- ii. Give two reasons why peer-to-peer networks are more popular than traditional client-server networks for distributing pirated videos. [2]
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- b) Explain what digital rights management (DRM) is. [1]
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- c) Give four ways DRM might restrict the way a video file can be used. [4]
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2. Robots have long been used in manufacturing facilities; however, until recently they had not made a significant impact in other industries.
- a) Explain why it is easier to make a robot that works on an assembly line in a factory than it is to make a robot that cleans someone's house. [2]
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- b) Robots are now commonly used in distribution warehouses, picking and packing orders for customers. Describe two advantages and two disadvantages of using robots for this purpose. [4]
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- c) Self-driving cars have huge potential to change the way people travel; however, they present legislators with a number of challenges. Describe two challenges that legislators will need to overcome before self-driving cars can become commonplace. [2]

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3. In January 2015 the British Prime Minister David Cameron announced new legislation designed to limit the use of strong forms of encryption. He said:

'Are we going to allow a means of communication which it simply isn't possible to read? My answer to that question is no, we must not.'

Discuss the advantages and disadvantages of having strong forms of encryption readily available to members of the public. Provide examples of the sorts of communication that people might want to encrypt for positive or negative reasons. [6]

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