# End of Unit Quiz – Unit 1.6 System Security

* 1. The list below contains two types of malware. Tick **two** boxes to identify the two types of malware.

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| **Malware** | **Tick ()** |
| Sandboxing |  |
| Zombie |  |
| NAT router |  |
| Key logger |  |

* 1. What are **two** methods that could have been used to infect a laptop with malware?

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* 1. What are **two** types of anti-malware that should be used to protect a laptop?

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* 1. How could phishing take place at a call centre?

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* 1. What are **two** potential problems to a call centre if phishing takes place?

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* 1. Describe **one** other example of social engineering that employees at the call centre should be aware of.

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* 1. What is meant by the term ‘brute force attack’?

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* 1. What are **four** features of a strong password?

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* 1. What are **two** measures in addition to a password that could be used to keep a computer’s data secure?

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* 1. What are **three** reasons why companies may be targeted by a denial of service attack?

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* 1. What are **two** measures that a company could take to prepare for a denial of service attack?

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1. It is important that all users of a computer network realise what they can and cannot access on the network. The **table** below lists some actions that a student, a tutor and a network manager have authority to perform on a school network.

Tick **one** box in each row to show which action a student, a tutor and a network manager are authorised to undertake.

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| **Action** | **Student** | **Tutor** | **Network manager** |
| Change system settings |  |  |  |
| Access a shared area for students |  |  |  |
| Add or delete network users |  |  |  |
| Access the student’s file and make changes to it |  |  |  |
| Access a shared area for tutors |  |  |  |
| Install software |  |  |  |

1. Josh works in the finance department of a council. He has been asked by his manager to email an important document containing personal and financial information, to Saida, who works at a firm of accountants located in another part of the country.
   1. What is **one** method that a business could use to ensure that sensitive documents will not be read by anyone except the intended recipient?

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* 1. Convert this cipher text into plain text.

**XLI HEXE MW WIGYVI**

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* 1. The **table** belowlists three statements. Tick **one** box in each row to show whether a statement is **True** or **False**.

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| **Statement** | **True** | **False** |
| The Caesar cipher is an example of a substitution cipher. |  |  |
| A private key can be made available to everyone. |  |  |
| Advanced Encryption Standard uses 128-bit, 192-bit or 256-bit keys. |  |  |

* 1. What are **four** reasons why an attacker might want to target an organisation’s database with an SQL injection?

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* 1. What are **two** measures that an organisation should take to guard their software applications from an SQL injection attack?

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1. What are **two** advantages of using a firewall?

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1. Give a comparison of intrusion detection and vulnerability testing.

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1. Write about how penetration testing helps secure the telecommunication company’s computer network.

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