**National 5 Computing Science: Security Precautions**

Use the two hyperlinks below to help you answer the questions which follow:

<http://www.bbc.co.uk/education/guides/zytv34j/revision>

<http://www.bbc.co.uk/education/guides/zytv34j/revision/2>

1. Describe what is meant by the term **anti-virus software**. (1)

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2. Describe **three** common tasks carried out by anti-virus software. (3)

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3. Explain why you should always keep your anti-virus software **up to date**. (2)

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4. Describe **two** disadvantages of using **passwords**. (2)

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5. Explain how you can create a **strong** password. (2)

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6. Describe the **two** most recommended methods for creating a strong password. (2)

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7. Describe what is meant by the term **biometrics**. (1)

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8. Describe how the following security precaution methods work:

 a) Retina scanning (1)

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 b) Fingertip recognition (1)

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 c) Palm print recognition (1)

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 d) Face recognition (1)

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9. Describe what is meant by the term **firewall**. (2)

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10. Describe what **encryption** is and how it would be useful. (2)

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11. What security precaution would be best for the following security risks?

*(USE THE WORD BANK BELOW)*

 a) An **infected** program on your computer system (1)

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 b) A **hacker** trying to gain access to your computer system (1)

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 c) Logging into a **government** PC (1)

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 d) Logging into a **school** PC (1)

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 e) Sending an important file across the **internet** (1)

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| **Anti-virus software** |  | **Firewall** |  | **Encryption** |
|  | **Biometrics** |  | **Password** |  |