**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)

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

8. Describe how the following security precaution methods work:

a) Retina scanning (1)

|  |
| --- |
|  |

b) Fingertip recognition (1)

|  |
| --- |
|  |

c) Palm print recognition (1)

|  |
| --- |
|  |

d) Face recognition (1)

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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)

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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

|  |
| --- |
|  |

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