Name: ……………………………………………….. ( ) Class: ……… Date: ………………….

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| **1.3** | **Ethical, Social and Economic Issues** | **Data Safety**  **Social and Economic Impacts**  **Ethical Issues** |

1. Match the preventive measure to the type of cyberattack.

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| **Preventive measure** |  |  | **Type of cyberattack** |
|  |  |  |  |
| Install software to scan computer and update virus definitions regularly |  |  | Pharming |
|  |  |  |  |
| Opt out of subscribing to mailing lists that are not needed |  |  | Phishing |
|  |  |  |  |
| Do not click on hyperlinks in emails from untrusted sources |  |  | Spam |
|  |  |  |  |
| When visiting a website, look out for a padlock icon. |  |  | Virus |

1. More people are purchasing goods online and using the Internet for banking services. This has given rise to an increase in phishing.
2. Describe what phishing is and give an example of how it works.

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1. Suggest two ways to avoid being phished.

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1. When credit card or other personal/financial details are sent over the Internet, they are always encrypted before sending.
2. Explain what is meant by encryption.

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1. Explain why encryption is needed.

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1. In Singapore, the Personal Data Protection Commission (PDPC) is an enforcement agency that administers and enforces the Personal Data Protection Act. Its main role is to promote and ensure the protection of personal data of individuals and organisations.

A local karaoke chain was fined by PDPC for security breaches, resulting in the loss of the personal data of its members. Some of the breaches included not running security patches on its computer systems, use of weak passwords for administrator accounts and poor access controls to data.

1. Suggest three measures in password management.

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1. Tick the data protection rules that are True.

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|  | If you are approached on the street to complete a survey form, you are deemed to have consented to the use of your personal data for that specific purpose. |
|  | If you have provided your personal data to an organisation, you are not allowed to withdraw your consent to the use by giving notice to that organisation. |
|  | Organisations that collect personal data are required to obtain the consent of the user with regard to the collection, use and disclosure of the data. |
|  | You cannot write in to an organisation to request them to correct an error in your personal data. |

1. The use of technology has changed the way workers work and communicate. It has given rise to the use of teleworking and videoconferencing.
2. Explain what is meant by teleworking.

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1. Explain one reason why Voice over IP (VoIP) is used at work.

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1. Videoconferencing is a way to conduct ‘virtual’ face-to-face meetings regardless of distance.
2. Explain two advantages of videoconferencing.
3. Explain two disadvantages of videoconferencing.

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1. Explain what hacking is. Give a reason for preventing hacking of networks.

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1. Networks can be protected using firewalls. Explain how a firewall can be used to prevent unauthorized access.

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