**MEREBANK SECONDARY SCHOOL**

**INFORMATION TECHNOLOGY**

**Grade 10 Test**

**Social and Ethical Issues**

Question One

Match Column A with Column B

|  |  |
| --- | --- |
| Column A | Column B |
| * 1. The act of stealing intellectual property.   2. A law designed to protect intellectual property by creating legal limits on who can copy, sell and use the work.   3. It is the licence that most freeware is distributed under.   4. The broken, old, outdated and discarded hardware that we do not want and do not need.   5. Studies of the human body to try and design products so they better fit the way that we actually function.   6. Software that downloads and bombards your computer with adverts that pop up whenever you are connected to the internet.   7. An e-mail message or article intended to deceive or defraud others.   8. The use of good manners and showing respect for other users when using the internet.   9. A destructive program disguised as a useful application   10. A pattern that uniquely identifies a virus. | 1. Ergonomics 2. Netiquette 3. Piracy 4. E-waste 5. Adware 6. Virus Signature 7. Copyright 8. CopyLeft 9. Internet Hoax 10. Trojan 11. GNU 12. Phishing 13. Spyware |

Total : 20

Question Two

What do the following acronyms stand for:

2.1 EULA

2.2 ICT

2.3 RSI

2.4 CTS

Total : 4

Question Three

State whether the following statements are true or false

3.1 Piracy includes buying one licence for software and installing it on multiple computers.

3.2 A virus is the equivalent of 'junk mail'

3.3 Switching your TV on Standby is being responsible when it come to saving electricity.

3.4 Most viruses activate when you run or open the infected file.

3.5 A computer worm is able to distribute itself over a network.

Total : 5

Question Four

Your mother has a new job that involves her travelling a lot. She decided to buy a laptop.

4.1 Your mother was installing some software on her laptop. Her boss told her just to click on the "I accept" button when the installation program asks her to accept the EULA, as this is not important - it is just a way of checking if you actually want to install the software.

4.1.1 Explain what a EULA is. (2)

4.1.2 Do you agree with the advice that her boss had given her? Motivate your answer. (2)

4.2 Your brother made a copy of your friend's game. He maintains that it cannot be theft as the original copy is still available and has therefore not be "stolen". He has also read that it is perfectly acceptable to do this in some countries.

4.2.1 Explain to your brother why his thinking is not correct by referring to the concepts of intellectual property and copyright. (2)

4.2.2 Comment on why the illegal copying of software seems to be more "acceptable" in some countries than in others. (2)

4.3 The Digital Divide is a huge stumbling block to sustainable growth and development in Africa.

4.3.1 Explain what is meant by the Digital Divide. (2)

4.3.2 List three factors that cause or contribute to the digital Divide. (3)

4.4 Give two common sense healthy practices you should perform when working for long periods in front of a computer. (2)

4.5 Everything is going green - even computing. What does the term 'green computing' mean?

(2)

4.6 Give two ways to contribute to green computing other than saving paper. (2)

4.7 Computer viruses are a growing problem and cause many problems on computers daily.

a) What is a computer virus? (2)

b) Discuss two ways in which a computer can become infected with a virus? (2)

c) Why does one need to update anti-virus software? (2)

4.8 Modern e-communication tools such as social networking sites are often associated with identity theft.

a) Describe what is meant by the term identity theft. (2)

4.9 Spyware is becoming a huge problem for computer users.

a) Briefly describe what spyware is. (2)

b) Mention two signs that your computer could be infected with spyware. (2)

Total : 31

MEMO

* 1. C
  2. G
  3. K
  4. D
  5. A
  6. E
  7. I
  8. B
  9. J
  10. F
  11. EULA - End User Licence Agreement
  12. ICT - Information and Communication Technology
  13. RSI - Repetitive Strain Injury
  14. CTS - Carpel Tunnel Syndrome
  15. TRUE
  16. FALSE
  17. FALSE
  18. TRUE
  19. TRUE



4.1.1 The EULA is a licence agreement between the software company and the user, specifying the conditions under which the user can install and use the software.

4.1.2 No. The EULA is a legally binding contract between the user and the software company.

4.2.1 Intellectual property is anything created by the mind. Copyright law protects intellectual property by creating legal limits on who can copy, sell and use this type of work.

4.2.2 Different countries have different copyright laws and the level of policing and detecting these practices might be a lower priority.

4.3.1 The Digital Divide refers to situations when individuals or groups do not have access to, or the ability to make use of, technology, compared to digitally enabled groups.

4.3.2 Lack of financial resources

Differences in education levels

The Age Gap

Disabled individuals

* 1. Sit correctly - don't slouch or hunch

Take regular breaks - don't work for more than an hour at a time

* 1. 'Green Computing' refers to the design, use and disposal of technology in an environmentally or eco-friendly way.
  2. Switch of computers and devices you are not using.

Use devices that consume less power.

Rather than throw away hardware, try to repair or upgrade or see if someone else wants it

4.7.1 A computer virus is software that is written to disrupt the normal functioning of a computer and is loaded onto a computer without the knowledge of the owner.

4.7.2 infected attachments sent via email

infected downloaded files from the internet

infected files stored on portable media such as flash drives, cd's, etc.

4.7.3 New viruses come out daily

* 1. Identity theft is when someone steals your personal details such as your ID number, credit card details etc to commit fraud or any type of crime.

4.9.1 Spyware is software that tries to monitor and track the way you use your computer. it then sends this information of to third parties, without your consent or knowledge. It is installed on a person's computer without their knowledge.

4.9.2 It is reported by anti-spyware software

There could be internet activity not initiated by the user

changes are made to the internet settings (not by the user)

the computer slows down dramatically

the user is redirected to different web pages

many pop up windows appear with requests to install software.