DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET 90

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	25/8/20
TOPIC	INTERNET AND NETWORK TECHNOLOGIES: Revision	TERM 1 REVISION		TERM 4 CONTENT	✓
TIME ALLOCATION	30 Minutes	**TIPS TO KEEP HEALTHY**			

INSTRUCTIONS	1. This is a Theory Worksheet:
	2. You will need a book to write your answers in and something to write with.
	3. Answer the following questions in your workbook.
	4. **WHERE TO FIND THE ANSWERS:**
	   • You may use your CAT textbook to find the answers or alternatively,
	   • you can use the free downloadable CAT textbook provided by the Department of Basic Education.
	   • See the link below to download this book.
	   THEORY COMPUTER APPLICATIONS TECHNOLOGY: https://drive.google.com/drive/folders/17mOqPgJ1vHiwcErERV10jnEQgd6xpyj-?usp=sharing
	With thanks to the Department of Basic Education and the sponsorship of MTN this digital book and exercises are utilized by our CAT Grade 12 learners
		1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.
		2. **PRACTICE SOCIAL DISTANCING** – keep a distance of 1m away from other people.
		3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.
		4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.
		5. **STAY AT HOME.**			

Phishing against banks hits all time high

Anti-Phishing Working Group warns of relentless

1   More and more criminals are making use of the Internet and phishing is becoming a worrying problem.

    1.1   Write down the URL in the example above. (1)

    1.2   Explain, by giving an example, how phishing is used to commit a crime. (2)

2   Today most computer devices are connected to some type of network, from a Personal Area Network (PAN) to Wide Area Network (WAN).

    2.1   Explain what a *Personal Area Network* (PAN) is by referring to its characteristics. (2)

    2.2   Briefly explain what a *Virtual Private Network* (VPN) is. (2)

    2.3   Wi-Fi networks are targets for hackers. Suggest ONE effective way of protecting a Wi-Fi network. (1)

3   Web browsers use a technology called web caching.

    3.1   State TWO possible advantages of using web caching. (2)

    3.2   Describe TWO ways in which available bandwidth plays a role when watching videos online from services like YouTube. (2)

    3.3   Define the term *protocol* in a network. (1)

    3.4   What protocol will be used to send files between remote computers that have an Internet connection? (1)

4   What type of network would use a 3G modem? (1)

[15]