Province of the
EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	20/04/20
TOPIC	Networks: General	TERM 1 REVISION		TERM 2 CONTENT	✓
TIME ALLOCATION	40 Minutes				

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

TIPS TO KEEP HEALTHY

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.**

1. Write down the correct answer for each of the following questions.
   a. Which one of the following is NOT part of networking equipment?
      A. Network cables
      B. Network signaller
      C. Hub
      D. Router
   b. An advantage of a WAN is that everyone on the network can access the same data and _____.
      A. Videos and photos
      B. Information
      C. News
      D. All of the above
   c. A disadvantage of a WAN is that the setting up of it can be _____.
      A. Difficult
      B. Time consuming
      C. Expensive
      D. All of the above

2. Choose a term or concept from Column B that matches the description in Column A. Write only the letter next to the question number.

COLUMN A	COLUMN B
2.1 Protocol used to transfer and manipulate files on the internet	A. VoIP
2.2 Protocol for emails over the internet	B. IRC
2.3 Protocol to transmit voice data over the internet	C. HTTP
2.4 Protocol to receive emails from remote servers	D. IMAP
2.5 Protocol used to chat over the internet and also used for other forms of communication	E. REC
	F. POP3
	G. HTTPS
	H. FTP

3. Say if the following statements are TRUE or FALSE. Correct the underlined word(s) if they are false.
   a. An <u>extender</u> is a piece of hardware that can be added to a computer and makes it possible to connect to a network.
   b. The internet is the best-known <u>LAN</u>.
   c. A WAN is a computer network that covers a <u>small</u> area.
   d. To create a wireless network, you only need two types of networking equipment: a WAP and a <u>wireless network adapter</u>.
   e. In modern computers, the network adapters are built into the <u>motherboard</u>.

4. Answer the following questions.
   a. What is a WAP and why is it important in a wireless network?
   b. In your own words, describe what the internet is and why it is important in modern society.
   c. What role does an ISP play when connecting to the internet?
   d. Large networks have changed the way in which we share and store information. Name three additional advantages of large networks.
   e. If you are looking to create a home network, what equipment will be needed? Will this change when you want to connect the network to the internet?
   f. What are the advantages and disadvantages of using a wireless network instead of a wired network when connecting to the internet?
   g. Give an example of where HTTPS protocol is used and how it differs from HTTP.