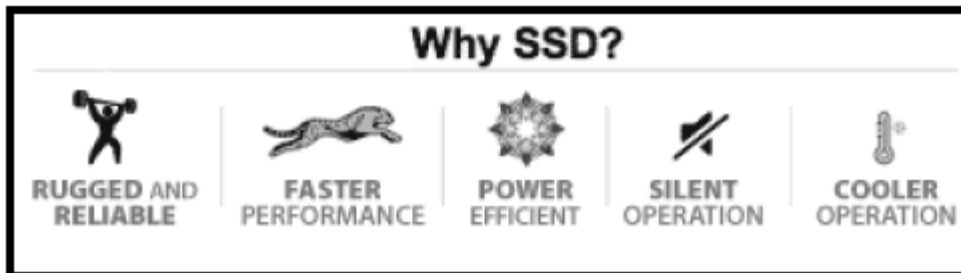Province of the

EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET 89
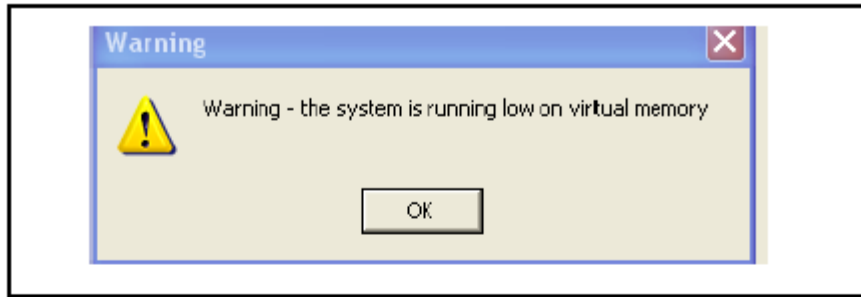
SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	24/8/20
TOPIC	SYSTEM TECHNOLOGIES: Revision	TERM 1 REVISION		TERM 4 CONTENT	✓
TIME ALLOCATION	30 Minutes	**TIPS TO KEEP HEALTHY**			

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.**			

1   Computers are made up of many parts.

    1.1   What is the term used to describe computers in which the box and the
              screen come as a single unit?   (1)

    1.2   State TWO reasons why it is easier for computers to be made up of
              many parts, rather than being one functioning unit.   (2)

2   The CPU does almost all the work in a computer.

    2.1   There are TWO factors of the CPU that can influence the performance
              of a computer. Name these TWO factors and describe each briefly.   (4)

    2.2   Briefly explain why the CPU needs cache memory.   (2)

3   Study the image of an SSD below, which was part of an advertisement, and
    answer the questions that follow.   (2)

    3.1   What does the abbreviation SSD stand for?   (1)

    3.2   Explain why the following will be features of an SSD:

          (a)   Silent operation   (1)

          (b)   Faster performance   (1)

4   Every now and then your computer displays the following message:

4.1   Explain what *virtual* memory is.   (1)

4.2   When will the operating system use virtual memory?   (1)

5   There are many economic considerations when using computers in a travel
     agency.   (1)

5.1   Besides switching off all computers at night, state TWO other ways
      in which the electricity usage of computing devices can be
      decreased.   (2)

5.2   Explain TWO ways in which the use of computers will be financially
      beneficial for the travel agency.   (2)

6   An incorrect statement was made that the use of an effective backup
     maintenance program will prevent the hard drive from becoming fragmented.

6.1   Describe TWO aspects of an effective backup maintenance
      program.   (2)

6.2   What kind of storage device would be used when backing up files
      from a server?   (1)

6.3   Define the term *disk fragmentation*.   (1)

7   Give THREE reasons why it is necessary to have an operating system
     installed on a computer by referring to the functions of an operating system.   (3)
                                                                                 [25]