



Province of the
EASTERN CAPE
 EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET 49

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	15/6/20
TOPIC	SYSTEM TECHNOLOGIES: Revision	TERM 1 REVISION		TERM 4 CONTENT	✓
TIME ALLOCATION	30 Minutes	<u>TIPS TO KEEP HEALTHY</u>			
INSTRUCTIONS	<ol style="list-style-type: none"> This is a Theory Worksheet: You will need a book to write your answers in and something to write with. Answer the following questions in your workbook. WHERE TO FIND THE ANSWERS: <ul style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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%. PRACTICE SOCIAL DISTANCING – keep a distance of 1m away from other people. PRACTISE GOOD RESPIRATORY HYGIENE: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use. 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. STAY AT HOME. 			

Study the specifications of the two computers below and answer the questions that follow:

COMPUTER A	COMPUTER B
i3 1.7 GHz CPU	i7 3.0 GHz CPU
4 GB DDR3, 1 333 MHz RAM	8 GB DDR3, 1600 MHz RAM
500 GB hard drive	1 TB hard drive
2 GB integrated HD graphics card	4 GB dedicated graphics card
Multi-DVD writer	Multi-DVD writer
USB 3.0	USB 3.0
802.11 a/b/g	802.11 a/b/g/n
2 MP webcam	8 MP webcam
19" LCD monitor	23" touch screen
Windows 7	Windows 8.1 Professional
USB keyboard	Wireless keyboard

- 1 State TWO hardware specifications for Computer B, besides the graphics card, that indicate that it should be more 'powerful' or provide better performance than Computer A. (2)
- 2 Explain the difference between *RAM* and a *hard drive* in terms of each one's function. (2)
- 3 Name TWO examples of power users who would benefit from installing a separate graphics card such as the one listed for Computer B. (2)
- 4 The term 'convergence' refers to a common trend in the development of computer hardware and devices.
 - 4.4.1 Explain the term *convergence*. (1)
 - 4.4.2 Give ONE example of convergence. (1)
- 5 Which item in the list of specifications would you use to connect a printer to Computer A? (1)
- 6 Which type of system software is specifically designed to allow a computer to control and communicate with a device such as a printer? (1)

- 7 Name the type of software required to change a scanned image of text into editable text. (1)
- 8 Explain why the webcam specification for Computer B could possibly cause it to use more bandwidth than the webcam specification for Computer A. (2)
- 9 Give TWO advantages of SSDs (solid-state drives) over traditional hard drives. (2)
- 10 Name a hardware device that is needed to connect a computer to the Internet. (1)
- 11 Voice recognition software could be used on the computers.
- 11.1 Name a hardware device that is NOT specified for either Computer A or B, but which would be necessary for voice input. (1)
- 11.2 State TWO potential disadvantages of using voice recognition software. (2)
- 12 State TWO possible software-related issues, excluding malware, that could cause a sudden decrease in the performance of a computer. (2)
- 13 Name TWO advantages of having a POS ('point of sale') system installed in a shop. (2)
- 14 State TWO basic functions of an operating system, excluding tasks performed by utilities such as the disk defragmenter. (2)
- [25]**