



Province of the  
**EASTERN CAPE**  
 EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET 81**

<b>SUBJECT</b>	COMPUTER APPLICATIONS TECHNOLOGY	<b>GRADE</b>	12	<b>DATE</b>	10/8/20
<b>TOPIC</b>	SYSTEM TECHNOLOGIES: Revision	<b>TERM 1 REVISION</b>		<b>TERM 4 CONTENT</b>	✓
<b>TIME ALLOCATION</b>	30 Minutes	<p><b><u>TIPS TO KEEP HEALTHY</u></b></p> <ol style="list-style-type: none"> <li><b>WASH YOUR HANDS</b> thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.</li> <li><b>PRACTICE SOCIAL DISTANCING</b> – keep a distance of 1m away from other people.</li> <li><b>PRACTISE GOOD RESPIRATORY HYGIENE:</b> cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.</li> <li><b>TRY NOT TO TOUCH YOUR FACE.</b> The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.</li> <li><b>STAY AT HOME.</b></li> </ol>			
<b>INSTRUCTIONS</b>	<ol style="list-style-type: none"> <li>This is a Theory Worksheet:</li> <li>You will need a book to write your answers in and something to write with.</li> <li>Answer the following questions in your workbook.</li> <li><b>WHERE TO FIND THE ANSWERS:</b> <ul style="list-style-type: none"> <li>You may use your CAT textbook to find the answers or alternatively,</li> <li>you can use the free downloadable CAT textbook provided by the Department of Basic Education.</li> <li>See the link below to download this book.  <b>THEORY COMPUTER APPLICATIONS TECHNOLOGY:</b>  <a href="https://drive.google.com/drive/folders/17mOqPgJ1vHiwcErERV10jnEQgd6xpyj-?usp=sharing">https://drive.google.com/drive/folders/17mOqPgJ1vHiwcErERV10jnEQgd6xpyj-?usp=sharing</a>            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</li> </ul> </li> </ol>				

1 Study the advertisement below and answer the questions that follow.

### DEVICE A



A stylish all-in-one with a stunning screen

- 196 x 196 x 36mm
- VGA and HDMI output
- Quad-Core i7
- Intel Iris Graphics 6000
- Crucial 8GB DDR4-2133Mhz
- 1TB WD Blue 7200RPM Hard Drive
- 3 TB SSD
- Wireless: 802.11ac, Bluetooth 4.0
- MacOS Sierra 10

### DEVICE B



Released 2017, April  
155g, 8mm thickness  
Android 7.0  
64GB storage, microSD card slot  
\*Iris scanner, fingerprint (rear-mounted), 1

5.8" 1440x2960 pixels  
12MP 2160p  
4GB RAM Exynos 8895 Octa  
3000mAh Li-Ion

50% 14,923,355 HITS  
1263 BECOME A FAN

- 1.1 Name the TWO hardware components for Device A that are most important for the effective working of a computer, other than the hard drive. (2)
- 1.2 Explain how adding more RAM to a computer can improve the overall system performance of the computer. (2)
- 1.3 Give TWO reasons why solid state drives (SSDs) will in future replace hard disk drives as the main storage device of a computer. (2)
- 1.4 Give TWO benefits of buying Device A, which is an 'all-in-one' computer. (2)
- 1.5 Give TWO reasons why HDMI output is better than VGA output. (2)

- 2 The following questions refer to Device B:
- 2.1 Name TWO features/functionalities, which were added to a cell phone when multiple technologies converged as a phablet. (2)
  - 2.2 Name ONE way in which you could transfer photos from Device B to your desktop computer. (1)
  - 2.3 Give ONE example of an action that can be performed on a 'multi-touch sensing screen'. (1)
  - 2.4 Name ONE biometric feature of Device B listed in the advert. (1)
  - 2.5 Compare the operating systems found on both devices by referring to:
    - (a) Cost of the software (2)
    - (b) Support from the developer (2)
- 3 Write down the TWO processes in the information processing cycle that have the least influence on the overall performance of the computer. (2)
- 4 Explain why the central processing unit (CPU) of a computer needs cache memory. (2)
- 5 A buyer considers purchasing a 3D printer.
- Name TWO advantages of buying a 3D printer. (2)

**[25]**