



Province of the  
**EASTERN CAPE**  
 EDUCATION

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

**HOME SCHOOLING SELF-STUDY WORKSHEET ANSWER SHEET 89**

<b>SUBJECT</b>	COMPUTER APPLICATIONS TECHNOLOGY	<b>GRADE</b>	12	<b>DATE</b>	24/8/20
<b>TOPIC</b>	SYSTEM TECHNOLOGIES: Revision	<b>TERM 1 REVISION</b>		<b>TERM 4 CONTENT</b>	✓

1.1	All in one computer ✓		(1)	3
1.2	<ul style="list-style-type: none"> <li>You can repair the computer by replacing a broken or faulty component. ✓</li> <li>You can upgrade the computer by adding new parts or replacing existing ones with more powerful versions. ✓</li> </ul>		(2)	
2.1	<ul style="list-style-type: none"> <li>Speed ✓ – A higher speed means more instructions can be processed in the same amount of time. ✓</li> <li>Cores ✓ – Each core can be working on a separate program but at the same time. ✓</li> </ul>		(4)	6
2.2	CPU needs cache memory to avoid waiting ✓ for slower components. ✓		2	
3.1	Solid state drive ✓		(1)	3
3.2	(a)	There is no physical moving parts when writing or reading on an SSD. ✓	(1)	
	(b)	There is no time spent to move to the position where file is saved/can access it immediately. ✓	(1)	

4.1	<ul style="list-style-type: none"> <li>Virtual memory is a portion of hard drive space which acts as memory (RAM). ✓</li> </ul>		(1)	2
4.2	<i>Any ONE</i> ✓ <ul style="list-style-type: none"> <li>Too many applications open.</li> <li>Programs too large to run from available RAM.</li> </ul>		(1)	

5.1	<p><i>Any TWO ways of decreasing electricity usage: ✓✓</i></p> <ul style="list-style-type: none"> <li>• Decrease brightness settings of the screen.</li> <li>• Unplug chargers when not in use.</li> <li>• Change the balance between power consumption and performance.</li> <li>• Set devices on sleep/hibernate mode.</li> <li>• Buy energy efficient devices.</li> </ul>	(2)	
5.2	<p><i>Any TWO benefits: ✓✓</i></p> <ul style="list-style-type: none"> <li>• Greater productivity – time is saved by producing electronic documents versus type writers/Electronic communication enhance productivity.</li> <li>• Information availability – access to current/accurate data/availability of information on the web.</li> <li>• Fewer employees – will save on payroll expenses.</li> <li>• Cost saving – do not have to print everything which saves paper.</li> </ul> <p><b>NOTE:</b> Do not award marks for repetition of the same concept or any reference to use of Internet.</p>	(2)	4

6.1	<p><i>Any TWO: ✓✓</i></p> <p><i>Effective backup program includes the following:</i></p> <ul style="list-style-type: none"> <li>• Create a schedule to backup files/Remember to make regular (daily, weekly and monthly) backups.</li> <li>• Choosing to only backup files that have changed since last backup.</li> <li>• Use incremental backup.</li> <li>• Compressing files to save space on the backup media.</li> <li>• Do not save the backup on the same computer hard drive.</li> <li>• Keep your backup media saved preferably off-site.</li> <li>• Backup only user data as software may be reinstalled.</li> </ul>	(2)	
6.2	<ul style="list-style-type: none"> <li>• external drives ✓</li> </ul>	(1)	
6.3	<ul style="list-style-type: none"> <li>• <i>Disk fragmentation of hard drive occurs when:</i> complete computer files are not saved in consecutive clusters (but scattered) on the hard drive. ✓</li> </ul>	(1)	4

7.1	<i>Any THREE of: ✓✓✓</i> <ul style="list-style-type: none"> <li>• Controls all resources (hardware and software).</li> <li>• Responsible for the loading of programs and running programs.</li> <li>• Provides user interface.</li> <li>• File handling.</li> <li>• Provide basic security.</li> </ul>	(3)	3
		<b>[25]</b>	