Province of the

EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET ANSWER SHEET 81

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	10/8/20
TOPIC	SYSTEM TECHNOLOGIES: Revision	TERM 1 REVISION		TERM 4 CONTENT	✓

1.1	• CPU ✓ • RAM ✓	2	
1.2	• More data/programs can be loaded simultaneously into RAM • No need for virtual memory • Faster access to data　　　　　　　　　　　　　(✓✓ any two)	2	
1.3	• SSD is faster • More durable • Uses less electricity • No moving parts • Less noise • SSD becomes cheaper in sub 250GB systems • Etc.　　　　　　　　　　　　　　　　　　　(✓✓ any two)	2	
1.4	• Cost saving/Cheaper • (Physical) Space-saving • Less components/no cabling • Uses less power (one component) 　　　　　　　　✓✓ (any two or any acceptable answer)	2	
1.5	• Better image quality/video/audio • The signals are digital (not analogue) • HDMI cable carries video AND audio　　　　　(✓✓ any two)	2	10

2.1	• Camera • Touch screen • Bigger screen on phablet • Multi-media capabilities (✓✓ any two)	2	
2.2	• Via SD card in card reader • Bluetooth • USB cable • Via cloud storage/service (✓ any one)	1	
2.3	• Pinch • Swipe • Zoom/spread • Tap • Double tap • Long press (✓ any one)	1	
2.4	• Iris scanner • Fingerprint scanner (✓ any one)	1	5
2.5	(a) Apple software is proprietary and subject to cost, ✓ whilst Android is open source free of charge. ✓	2	
	(b) • MacOS Sierra is well-supported ✓ by developer (Apple) • Android (as open-source) not well supported ✓	2	4

3	• Input ✓ • Output ✓	2	2

4	The CPU needs cache memory to store frequently or recently accessed data ✓ based on the assumption that it will probably be accessed again soon. ✓	2	2
5	• 3D printing is much cheaper than conventional manufacturing methods. • 3D printing technology enables home users to have access to machines that can build 3D models. • Parts needed for a project can be made 'on-demand'. • Print a model of a product that does not yet exist. • Customers can inspect a physical model before it is manufactured. • Ordinary users can easily create 3D objects. • Companies may use it in the manufacturing process as it may be more efficient or cost effective. (✓✓ any two)	2	2
			25