Province of the

EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET ANSWER SHEET 34

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	26/5/20
TOPIC	INTERNET AND NETWORK TECHNOLOGIES: Revision	TERM 1 REVISION		TERM 4 CONTENT	✓

1.1	**Device used to connect computers to a network** • Switch/Hub/Router/Access point✓ *(Note to marker: Accept references to an access point, e.g. Hotspot, etc.)*	1	
1.2	**Computer component to connect to a network** • NIC/Wi-Fi adaptor/Ethernet/Network adaptor ✓	1	
1.3	**TWO limitations of wired LAN over WLAN** • Adding infrastructure is difficult/Specialist knowledge may be required • Available space/specific venue may make it difficult/inappropriate to lay cables/Possible cable clutter • Reduced mobility/portability of devices • Not generally suited for connecting IoT devices ✓✓(Any two)	2	4

2.1	**Definition of grid computing**		
	• Grid computing combines the resources of many servers and/or personal computers on a network✓, such as the internet • To act as one large computer/To satisfy the demand for large processing capacity/To solve a single problem ✓	2	
2.2	**Real-life application of grid computing** *Tasks that require large processing power, such as:* • Weather forecasting • Space exploration/experiments • Bitcoin/Data mining • Analysis of Big Data • Earthquake simulations, etc. ✓(Any one)	1	3

3	**TWO measures to block unwanted content from a web browser**	
	• Enable a pop-up/ad blocker • Use the block website feature of the browser • Request the ISP to block certain websites • Install a plug-in that blocks known questionable sites • Use a safe-search feature of the search engine • Use an anti-virus program that has web content screening ✓✓(Any two)	2

4	**Benefit of shaping for clients**		
	• Important/High priority internet services✓, e.g. E-mail • will always have preference✓ *(Note to marker: Accept any valid example and explanation.)*		2
5.1	**Concept of streaming** • Playing/Watching a media file ✓ • as data is being received/without having to download fully ✓	2	
5.2	**TWO ways to prevent/reduce buffering of a video stream** • Reduce video resolution • Ensure that no other apps/devices are using the bandwidth • Ensure that you have a reasonable line speed/adequate signal strength ✓✓(Any two)	2	4
			[15]