



Province of the  
**EASTERN CAPE**  
 EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**  
**HOME SCHOOLING SELF-STUDY WORKSHEET**

<b>SUBJECT</b>	INFORMATION TECHNOLOGY THEORY	<b>GRADE</b>	12	<b>DATE</b>	30 March to 3 April 2020
<b>TOPIC</b>	Revision Exercises What is cloud computing?	<b>TERM 1 REVISION</b>	(Please tick)	<b>TERM 2 CONTENT</b>	✓
<b>TIME ALLOCATION</b>	1hr	<b><u>TIPS TO KEEP HEALTHY</u></b>			
<b>INSTRUCTIONS</b>	Resources used <ul style="list-style-type: none"> <li>• Its gr8! @ grade12 theory, Study Opportunities</li> <li>• Information Technology Theory Book Grade 12 , DBE</li> <li>• Past Exam Papers</li> </ul> <p>Answer all questions</p>				
	<b>Operating Systems</b> 1. Many end-users are not really sure what an operating system is and why they even need one.				

Give a concise (short, to-the-point) definition of what an operating is and give four typical functions of an operating system.

2. Multitasking is when a computer runs or appears to run multiple programs at the same time. Briefly explain how this is achieved in a system with a single core CPU.
3. Can multitasking and multiprocessing take place in a computer system with a single CPU? Briefly motivate your answer.

### **Virtualisation**

1. Virtualisation is a common term in computers. This ranges from virtual memory to virtual reality. How are all these systems 'implemented'.
2. List two main advantages of virtualisation
3. Give two examples of virtualisation software.
4. Explain the difference between a host and a guest operating system in the context of virtualisation.
5. How does the concept of a virtual machine get around the issue of different operating systems?

### **Cloud Computing**

1. What do you need to be able to use cloud computing?
2. List four uses of cloud computing.
3. Name three file syncing services.
4. What is the main advantage or aim of file syncing?