



Province of the
EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET ANSWER SHEET 24

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	07/05/20
TOPIC	System Software: Factors that influence performance	TERM 2 REVISION		TERM 3 CONTENT	✓

1. Which of the following refers to cache located on the CPU?

Answer: B

2. Answer the following questions.

- a. Define RAM.

Answer: Random access memory or RAM is responsible for temporarily storing the data that is being used by the computer's processor.

- b. Explain what influences the speed of a CPU.

Answer: The Gigahertz of the processor. Gigahertz refers to the CPU frequency, and is an indication of the processor speed. The number of cores.

- c. What can potentially happen if you open too many applications at the same time?

Answer: If you open too many applications at the same time, all available resources will be used up and your computer's processing speed will slow down significantly. This might even lead to some applications freezing entirely.

- d. Describe how cache improves performance.

Answer: Processing speed. Caching is a small, temporary form of storage that is created in a fast form of memory in order to allow data to be accessed more quickly.

- e. List three ways in which you can free up disk space.

Answer:

- 1. Delete any files that you don't need any more.*
- 2. Use the disk Clean-up application to help create some additional space.*
- 3. Buy an additional hard drive*

f. What is meant by a CPU's generation, and how does this affect its speed?

Answer: The term Generation is applied when new and significant architecture and factory processing changes were made within the same family of processors. It can potentially increase the processing speed of the CPU.

g. Does the heat of the CPU affect performance? If so, then how does it affect performance, and what equipment is used to counter the heat?

Answer: Yes, the hotter the CPU the slower the performance. It can also damage the CPU. Fans are used to increase airflow and cool down the CPU. Re-apply thermal paste.