



Province of the
EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET ANSWER SHEET

| | | | | | |
|----------------|----------------------------------|------------------------|----|-----------------------|---------------|
| SUBJECT | COMPUTER APPLICATIONS TECHNOLOGY | GRADE | 12 | DATE | 09/04/20 |
| TOPIC | Hardware: Storage devices | TERM 1 REVISION | ✓ | TERM 2 CONTENT | (Please tick) |

1. Multiple choice:

- a.** What current technology is replacing the DVD?
Answer: C
- b.** What is the average capacity of a DVD?
Answer: D
- c.** Which of the following is NOT a storage device?
Answer: B
- d.** Which one is an internal hard drive's average rotational speed?
Answer: C
- e.** Which of the following is a limitation of an internal hard drive?
Answer: B
- f.** Which of the following is a limitation of an external hard drive?
Answer: C
- g.** Which of the following is an advantage of solid-state drives?
Answer: A
- h.** Which of the following is an advantage of flash drives?
Answer: B
- i.** Which of the following is an advantage of optical drives?
Answer: A
- j.** Which of the following is not an advantage of cloud storage?
Answer: A

2. Matching items

Choose a term/concept from COLUMN B that matches the description in COLUMN A. Write only the letter next to the question number.

Answer: 2.1 C

2.2 F

2.3 A

2.4 D

2.5 G

3. True or false statements

Indicate whether the following statements are TRUE or FALSE. Write 'true' or 'false' next to the question number. Correct the statement if it is FALSE. Change the underlined word(s) to make the statement TRUE. You may not simply use the word 'NOT' to change the statement.

- a. Another name for a flash disk is a thumb drive.
Answer: True
- b. A flash drive is the least robust storage device.
Answer: False - most
- c. An internal hard drive has the highest storage capacity.
Answer: True
- d. A hard drive has a shorter life span than a solid-state drive.
Answer: False – longer
- e. Cloud storage is for free for a specific amount.
Answer: True

4. Short questions

Answer the following questions:

- a. What is the difference between internal and external hard drives?
Answer: An internal hard drive is situated inside the computer box in a fixed position. An external hard drive is portable but usually has less storage capacity, and is more expensive.
- b. What is the difference between an HDD and a SSD?
Answer: Solid State Drive is a storage device that has no moving parts while a hard drive (HDD) has a larger storage capacity than the SSD, but is slower in terms of memory retrieval.
- c. How would you explain cloud storage to a grade 10 CAT learner?
Answer: Cloud storage is a system where your data is stored on a remote server that you can access over the internet.
- d. What five points must you take into consideration when choosing a storage device? Explain the five points briefly.
Answer:
 - Its storage capacity, which determines how much information you can save on the device.
 - Its storage speed, which determines how quickly new information can be written to the device or read from the device.
 - Its volatility, which determines if the device will lose the data when turned off. You do not want a device that will lose all data in case of a power outage.
 - Its reliability and durability which determines how likely the device is to break down. When you store thousands of hours' worth of work or years' worth of photographs on a storage device, you do not want it to break unexpectedly.

5. Scenario

Read through and understand the following scenarios to provide an appropriate solution.

- a.** Your parents gave you R1 500 to buy a storage device for your computer. Explain the factors involved for your decision to either buy a hard drive or a SSD. State your choice at the end.

Assessment tool

Use the following checklist to assess the learner's task.

| Criteria | Yes/No |
|--|--------|
| Did the learner mention the advantages of HDD and SSD? | |
| Did the learner mention the disadvantages of HDD and SSD? | |
| Did the learner compare the advantages and disadvantages of HDD and SSD? | |
| Did the learner come to a conclusion based on their comparison? | |

- b.** Your uncle wants to open up a store that sells music CDs and DVDs and clean CDs. Give him your advice on the relevance and future of CDs and DVDs. Give your uncle your opinion on whether it is wise to open such a store and why.

Assessment tool

Use the following checklist to assess the learner's task.

| Criteria | Yes/No |
|---|--------|
| Did the learner discuss the relevance of CDs and DVDs in the future? | |
| Did the learner discuss why it would or would not be wise to open a CD/DVD store? | |
| Did the learner mention potential future developments such as Blue Ray and virtual reality? | |
| Did the learner indicate a possible adjustment that would make the store successful? | |