Province of the

EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING ASSESSMENT 1 ANSWER SHEET

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	17/04/20
TOPIC	SOFTWARE	TERM 1 REVISION	✔	TERM 2 CONTENT	(Please tick)

Question 1: Multiple choice

1.1   Which of the following is an online spreadsheet software?   (1)
Answer: B ✔

1.2   Which of the following is a limitation of installed software?   (1)
Answer: A ✔

1.3   Which of the following has a built-in antivirus?   (1)
Answer: A ✔

1.4   Which of the following would be the output equivalent of voice recognition software, when used by blind users?   (1)
Answer: B ✔

1.5   Which of the following is NOT an advantage of UCD?   (1)
Answer: B ✔

Question 2: True or false

Indicate if the following statements are 'True' or 'False'. Choose the answer and 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.)

2.1   Software tells the computer's hardware what to do.   (1)
Answer: True. ✔

2.2 Reference software makes use of templates. (1)

Answer: False. Word processor software makes use of templates. ✓

2.3 You will always have access to installed software when compared to web-based software. (1)

Answer: False. You will always have access to web-based software when compared to installed software. ✓

2.4 Word processor software and reference software make use of dictionaries. (1)

Answer: False. Word processor software and reference software make use of thesauruses. ✓

2.5 PDFs are used by word processor software to restrict user access to documents. (1)

Answer: False. PDFs are used by document management software to restrict user access to documents. ✓

Question 3: Matching items

Choose a term/concept from COLUMN B that matches a description in COLUMN A. Write only the letter next to the question number (e.g. 1-A). (5)

Answer: **3.1** *F* ✓   **3.2** *C* ✓   **3.3** *A* ✓   **3.4** *G* ✓   **3.5** *B* ✓

Question 4: Categorisation questions

Determine which of the following software is used by the following applications: (8)

Answer:

4.1 *Presentation software* ✓

4.2 *Reference software* ✓

4.3 *Document management software* ✓

4.4 *Web browser* ✓

4.5 *Database software* ✓

4.6 *E-mail software* ✓

4.7 *Reference software* ✓

4.8 *Spreadsheet software* ✓

Question 5: Scenario-based questions

Recently, Sizwe's computer programs have been running very slowly and providing him with constant error messages. Since he bought his computer two years ago, he has never allowed his computer to access the internet.

a. What kind of software problem do you think Sizwe has? (1)

Answer: Out-dated software ✓ *OR Software that needs to be updated.* ✓

b. Give two reasons why it is important for Sizwe to address this problem? (3)

Answer: Use the following as an assessment guideline:

Some possible answers:

- *Updates can be used to fix any problems that have been identified once the software has been released.* ✔
- *Updates include improvements to program performance, stability and security.* ✔
- *Updates include new program features.* ✔
- *Installing program updates is very important as it keeps your program running safely and efficiently.* ✔
- *Updating software prevents others from exploiting your computer* ✔ *as malicious people tend to target older, flawed versions of software that contain unpatched security flaws.*

c. Now that Sizwe has started to access the internet more regularly he has noticed that some websites do not work on his current web browser. Mention TWO things that could be causing this problem. (2)

Answer: Use the following as an assessment guideline:

Some possible answers:

- *His browser might need to be updated.* ✔
- *His browser might not have the features or add-ons these websites require to run.* ✔

d. Sizwe decides to update all the software on his computer, but some of them do not want to update. Give TWO reasons why this might be happening and provide a solution to each problem. (4)

Answer: Use the following as an assessment guideline:

Some possible explanations:

- *The software might be flawed* ✔ *so he should report the problem to the developer of the software.* ✔
- *His computer might not have the minimum system requirements needed to install the new updates* ✔ *so he might need to upgrade his hardware.* ✔

e. Explain to Sizwe the difference between minimum requirements and recommended requirements. (4)

Answer: Minimum requirements are the lowest specifications needed to let the program work, ✔✔ *while recommended requirements are the specifications that will allow the program to function at its best.* ✔✔

5.2 The Tinder dating app revolutionised online dating, so much so that it made a social-cultural impact.

    a. Do you think that the creator of the app used the UCD process when creating the app? Give two reasons for your answer.

        Answer:

        Meeting customers' expectations: This will lead to an increase in sales and lower costs caused by returns and customer support.

        Safer products: Because UCD focuses on the user, products can be designed for specific tasks. This reduces the risk that the product will be used for the wrong task. (2)

    b. Provide two advantages of using the UCD process.

        Answer: UCD makes it easier for a user to enter data into a database, as it ensures that the user enters the correct information where needed. The following factors should be considered when designing a database:

- *Purpose of the database.*
- *Type of data being stored.*
- *Data fields required for data entry.*
- *Data validation techniques to protect data entry.* (2)

TOTAL: [40]

Part 3: Matching items

Choose a term/concept from COLUMN B that matches a description in COLUMN A. Write only the letter next to the question number (e.g. 1-A). (6)

Answer: **3.1** *B*   **3.2** *E*   **3.3** *B*   **3.4** *H*   **3.5** *C*   **3.6** *D*

Part 4: Short and medium questions

4.1 When you turn on a computer, what happens at each stage of the processing cycle? (4)

Answer: Use the following as an assessment guideline:

- *Input: You press the power button on the computer.* ✓
- *Storage: The computer fetches the instructions it needs to start up the computer's operating system from the ROM (BIOS).* ✓
- *Processing: The CPU interprets these instructions and sends the relevant signals to the relevant components of the computer.* ✓
- *Output: The computer's screen turns on and shows that the operating system is loading until it gets to the login screen.* ✓
- *Communication: The internal components of the computer like the power button, CPU, monitor, ROM and RAM communicate through digital signals fetched and sent by the CPU.* ✓ *OR The computer automatically connects with any devices (such as the keyboard and mouse of a Desktop PC) that are connected to it during startup.*

4.2 How do you properly dispose of your old electronic devices? (2)

Answer: E-waste: This type of waste refers to discarded electronic devices that are thrown away and transported to landfills. Most of these devices contain non-biodegradable materials and heavy metals (lead, cadmium and mercury) that are toxic. The toxins can leak into the ground and contaminate the groundwater.

4.3 Describe what convergence is. (2)

Answer: Convergence is a term used to describe a situation where multiple technologies ✓ *are combined to deliver a new, more exciting product.* ✓

4.4 As technology has evolved computers have changed and, in some cases, improved our lives and way of living.

a. List FIVE reasons why people use computers. (5)

Answer: Any five of the following:

- *Saving time* ✓
- *Saving labour* ✓
- *Communication costs* ✓
- *Efficiency* ✓
- *Accuracy and reliability* ✓
- *Effect on time and distance* ✓

TOTAL: [38]