COMPUTER APPLICATIONS TECHNOLOGY ASSIGNMENT 1

SCHOOL: JEPPE COLLEGE

MODULE: COMPUTER APPLICATIONS TECHNOLOGY (CAT)

Grade	: 10
Assessor	: Miss J. Mokwena
Total Marks	: 30
Due date	: 22 May 2025

Instructions:

Read the following instructions carefully before answering the questions:

1. Answer all questions.
2. Write clearly and neatly.
3. Use examples where required.
4. The assignment consists of 3 sections.

Networks, Hardware Components, and Green Computing

Section A: Multiple Choice Questions (5 × 1 = 5 marks)

Choose the correct answer for each question. Circle the letter of the correct answer.

1. Which of the following is the smallest type of network?

A. LAN

B. WAN

C. HAN

D. PAN

(1)

2. What component is considered the "brain" of the computer?

A. RAM

B. Motherboard

C. CPU

D. Hard Drive

(1)

3. Which of these is an example of green computing?

A. Running programs at full power all day

B. Computers going to “sleep” after being inactive

C. Using larger hard drives to store more data

D. Keeping computers powered on overnight

(1)

4. What type of memory is volatile and clears when the computer powers off?

A. SSD

B. Hard Drive

C. RAM

D. CPU

(1)

5. Which of the following is true about a Home Area Network (HAN)?

A. It only supports wired connections

B. It covers large office buildings

C. It connects smart appliances and devices in a home

D. It connects people in different cities

(1)

Section B: Short Answer Questions (5 × 2 = 10 marks)

Answer each question briefly and clearly.

6. Define a Wide Area Network (WAN) and give one example. **(2)**

7. Differentiate between internal and external computer hardware components. **(2)**

8. List any two devices that can be connected in a PAN. **(2)**

9. Explain why green computing is important. **(2)**

10. Name and describe the function of the component that stores both permanent and temporary data. **(2)**

Section C: Long Answer Questions (3 × 5 = 15 marks)

Answer the following in full sentences. Use examples where possible.

11. Describe the difference between a HAN and a PAN. Include the types of devices and methods of connection. **(5)**

12. Explain the concept of green computing. Describe three ways it can be implemented in modern computing. **(5)**

13. Describe four internal hardware components of a computer and explain the function of each. **(5)**

TOTAL MARKS:30

GOOD LUCK!!!