

SMARTWIZ

GRADE11 COMPUTER APPLICATIONS TECHNOLOGY (CAT) EXAM

MARKS: 100

MARKS	

TIME: 2 HOURS

SCHOOL _____

CLASS (eg. 4A) _____

SURNAME _____

NAME _____

Instructions for Learners:

- Read all instructions carefully before you begin the exam.
- Write your full name and student number clearly on the answer sheet/book.
- Answer all questions unless otherwise instructed.
- Show all your work/calculations where necessary.
- Write neatly and clearly.
- Use only a blue or black pen. Do not use correction fluid or tape.
- Electronic devices (calculators, cell phones, etc.) are not allowed unless explicitly permitted.
- Raise your hand if you have any questions.
- Do not talk to other learners during the exam.
- Any form of cheating will result in immediate disqualification from the exam.

This exam consists of five pages, including the cover page.

SECTION A: MULTIPLE CHOICE QUESTIONS (20 marks)

Choose the correct answer and write the letter next to the question number.

1.1 Which of the following is NOT a function of an Operating System?

- A) Managing hardware
- B) Running applications
- C) Creating spreadsheets
- D) Managing files

_____ (1)

1.2 Which device is used to output sound?

- A) Printer
- B) Monitor
- C) Speakers
- D) Keyboard

_____ (1)

1.3 What type of software is Microsoft Excel?

- A) Database software
- B) Spreadsheet software
- C) Word processing software
- D) Presentation software

_____ (1)

1.4 What does GUI stand for in computing?

- A) General User Interface
- B) Graphical User Interface
- C) Global User Integration
- D) Graphic Usage Input

_____ (1)

1.5 Which of the following file extensions is for a presentation file?

- A) .pptx
- B) .docx
- C) .xlsx
- D) .pdf

_____ (1)

1.6 Which internet service is used to access websites?

- A) FTP
- B) HTTP
- C) SMTP
- D) POP3

_____ (1)

1.7 Which of the following is NOT a type of computer network?

- A) LAN
- B) WAN
- C) MAN
- D) PANDA

_____ (1)

1.8 Which shortcut key is used to paste copied content?

- A) Ctrl + C
- B) Ctrl + V
- C) Ctrl + X
- D) Ctrl + Z

_____ (1)

1.9 What is the primary purpose of antivirus software?

- A) To speed up the computer
- B) To delete files
- C) To detect and remove malware
- D) To create backups

_____ (1)

1.10 What does URL stand for?

- A) Uniform Resource Locator
- B) Universal Resource Link
- C) Unique Resource Locator
- D) User Resource Link

_____ (1)

SECTION B: MATCHING QUESTIONS (20 marks)

Match the items in COLUMN A with the correct description in COLUMN B. Write the letter next to the question number.

COLUMN A	COLUMN B
2.1 Browser	A) Converts data into visual or audio output
2.2 RAM	B) Software to access the internet
2.3 Printer	C) Temporary memory used by the CPU
2.4 CPU	D) Main processor of a computer
2.5 Firewall	E) Security system to block unauthorized access

2.1 ____
 2.2 ____
 2.3 ____
 2.4 ____
 2.5 ____

SECTION C: LONG QUESTIONS (60 marks)

QUESTION 3

3.1 Explain the difference between *bit* and *byte*. Why is understanding this important in computing?

(6)

3.2 Describe THREE types of software licenses and the main characteristics of each.

(6)

3.3 What is *phishing*? Describe TWO ways users can avoid phishing attacks.

(6)

3.4 Define the term *database*. Explain TWO advantages of using a database management system (DBMS).

(6)

3.5 Explain the difference between *lossy* and *lossless* file compression. Give ONE example of each.

(6)

3.6 List and explain THREE ways to improve computer security in an organization.

(6)

3.7 Describe the following spreadsheet features and their uses:

- Cell referencing
 - Conditional formatting
 - Data filtering
-
-
-

(6)

3.8 Explain the difference between *hardware* and *software* troubleshooting. Give ONE example of each.

(6)

3.9 Discuss the importance of data backups and describe TWO common methods of backing up data.

(6)

3.10 What is the purpose of the *Task Manager* in an operating system? How can it be useful to users?

(6)

END OF EXAM

TOTAL : 100

MEMO

SECTION A: MULTIPLE CHOICE QUESTIONS (20 marks)

- 1.1 C) Creating spreadsheets
 - 1.2 C) Speakers
 - 1.3 B) Spreadsheet software
 - 1.4 B) Graphical User Interface
 - 1.5 A) .pptx
 - 1.6 B) HTTP
 - 1.7 D) PANDA
 - 1.8 B) Ctrl + V
 - 1.9 C) To detect and remove malware
 - 1.10 A) Uniform Resource Locator
-

SECTION B: MATCHING QUESTIONS (20 marks)

- 2.1 B) Software to access the internet
 - 2.2 C) Temporary memory used by the CPU
 - 2.3 A) Converts data into visual or audio output
 - 2.4 D) Main processor of a computer
 - 2.5 E) Security system to block unauthorized access
-

SECTION C: LONG QUESTIONS (60 marks)

3.1 Bit vs Byte:

- Bit is a binary digit (0 or 1).
 - Byte is 8 bits grouped together to represent a character or data.
 - Importance: Understanding data size and memory capacity.
-

3.2 Software licenses:

- Proprietary: Paid, restrictions on use and distribution.
 - Freeware: Free to use, but no source code access.
 - Open Source: Free to use and modify, source code available.
-

3.3 Phishing:

- Fraudulent attempt to obtain sensitive info by pretending to be trustworthy.
 - Avoid by not clicking unknown links and verifying sender's email.
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3.4 Database:

- Organized collection of related data.
 - Advantages: Easy data retrieval and reduces data duplication.
-

3.5 Lossy vs Lossless compression:

- Lossy: Compression loses some data (e.g., JPEG images).
 - Lossless: Compression retains all data (e.g., ZIP files).
-

3.6 Improving computer security:

- Use strong passwords.
 - Install antivirus software.
 - Regular software updates.
-

3.7 Spreadsheet features:

- Cell referencing: Refers to data in other cells in formulas.
 - Conditional formatting: Highlights cells based on criteria.
 - Data filtering: Shows only data meeting specific criteria.
-

3.8 Troubleshooting:

- Hardware: Physical fixes (e.g., replacing faulty RAM).
 - Software: Fixing program errors (e.g., reinstalling software).
-

3.9 Data backups:

- Importance: Prevents data loss from failure or attacks.
 - Methods: External drives, cloud backups.
-

3.10 Task Manager:

- Monitors running processes and system performance.
- Useful for ending unresponsive programs and checking resource usage.

TOTAL : 100

