SMARTWIZ

GRADE 12 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 dishonesty will result in immediate disqualification from the exam.

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

SECTION A: Multiple Choice Questions $(20 \times 1 = 20 \text{ marks})$

Write only the letter (A–D) next to the question number.

1.	Which device stores data permanently even when the computer is switched off?
	A. RAM
	B. ROM
	C. Hard Drive
	D. CPU
	Answer:
2.	Which application software is best suited for managing numeric data?
	A. Microsoft Word
	B. Microsoft PowerPoint
	C. Microsoft Excel
	D. Microsoft Outlook
	Answer:
3.	Which one is a wired communication method?
	A. Wi-Fi
	B. Bluetooth
	C. Fibre optics
	D. Infrared
	Answer:
4.	What type of malware disguises itself as legitimate software?
	A. Worm
	B. Spyware
	C. Trojan Horse
	D. Ransomware
	Answer:
5.	Which protocol is used to send email?
	A. HTTP
	B. SMTP
	C. FTP
	D. HTML
	Answer:
6.	The main function of an ISP is to:
	A. Protect your computer from viruses
	B. Connect your device to the internet
	C. Store personal data
	D. Run operating systems
	Answer:
7.	What is the function of an operating system?
	A. Creates documents
	B. Manages hardware and software resources
	C. Runs antivirus scans
	D. Connects you to a website
	Answer:
8.	Which one is NOT a peripheral device?
	A. Monitor

	B. CPU
	C. Printer
	D. Mouse
	Answer:
9.	Which file extension indicates a Microsoft Word document?
	Axlsx
	Bpptx
	Cdocx
	Dmdb
	Answer:
10.	What is a network made up of computers in a small geographical area called?
	A. WAN
	B. MAN
	C. LAN
	D. PAN
	Answer:
11.	What is a benefit of using a spreadsheet?
	A. Automatically spell checks essays
	B. Creates professional email layouts
	C. Performs calculations using formulas
	D. Designs slide presentations
	Answer:
12.	Which term describes the illegal copying of software?
	A. Plagiarism
	B. Software piracy
	C. Freeware
	D. Malware
	Answer:
13.	What is the purpose of a firewall?
	A. Speed up downloads
	B. Block spam emails
	C. Prevent unauthorized access to a network
	D. Enhance hardware performance
	Answer:
14.	Which of the following is an example of a spreadsheet function?
	A. =ADD()
	B. =TOTAL()
	C. =SUM()
	D. =JOIN()
	Answer:
15.	What does GUI stand for?
	A. General User Interface
	B. Graphic User Information
	C. Graphical User Interface
	D. General Utility Interface
	Answer:
16.	Which storage is fastest in terms of data access speed?
	A. Optical Disc
	B. Flash Drive

C. Solid State Drive (SSD) D. Hard Disk Drive (HDD) Answer:	
17. What is a phishing scam? A. A virus that deletes data B. A fake message that tricks you into sharing personal info C. Software that fixes spelling errors D. A fake antivirus program	
Answer: 18. In email communication, what does CC stand for? A. Copy Complete	
B. Copy Communication C. Carbon Copy D. Contact Category	
Answer: 19. What is ergonomics in computing? A. Design of networks	
B. Data processing methods C. Efficient and safe workplace design D. Advanced hacking techniques Answer: 20. Which one is NOT an output device?	
A. Printer B. Monitor C. Speaker D. Webcam Answer:	
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SECTION B: Definitions & Terminology (25 marks)	
Write full sentences. 5 marks per question.	
 Define the term database and give one example of a database application. Answer: 	
	_
	_
2. What is an IP address and why is it important in networking? Answer:	

	plain what a spreadsheet formula is, and provide an example. swer:
	at does the term software license mean? Mention one type. swer:
	cribe cloud storage and list two benefits of using it.
SE	CTION C: Short Answer Questions (30 marks)
wer th	e following in full sentences. Marks as indicated.
	narks) List two input devices and explain how each is used.
• —	
	narks) Compare desktop computers and laptops . Mention 3 differences.

	(5 marks) Explain how antivirus software helps protect a computer system. Answer:
	(5 marks) State the difference between hardware and software . Provide one example of each. Answer:
	(5 marks) Describe the impact of poor ergonomics on computer users and suggest two improvements. Answer:
	(5 marks) Discuss the ethical use of computers in schools. Mention one example of misuse. Answer:
	SECTION D: Scenario-Based Question (25 marks)
Read t	he scenario and answer the questions that follow.
	a Grade 12 learner who uses her computer to complete schoolwork, access Google Drive for files, and send emails. She recently received a strange email asking her to "confirm her bank login
Answe	r the following:
	(5 marks) What should Lebo do after receiving this suspicious email? Answer:

3. (5 marks) Explain how cloud storage helps Lebo with her schoolwork. Answer:				
(5 marks) Ident	fy one advantage and one disadva	antage of using email for commun	ication.	
Answer:				
Disadvantage:				
(5 marks) Why Answer:	is it important for Lebo to use stro	ong passwords online?		
T N	★ TOTAL: 100	0 MARKS		

MEMO

SECTION A: Multiple Choice (1 mark each \times 20 = 20 marks)



Total: 20 marks

SECTION B: Definitions & Terminology $(5 \times 5 = 25 \text{ marks})$

Award full marks only for complete and accurate responses. Partial marks may be given for partially correct answers.

1. **Database:** A structured collection of data that can be accessed and managed using database software.

Example: Microsoft Access or MySQL.

[5 marks]

2. **IP Address:** A unique number assigned to a device connected to a network, allowing it to be identified and communicate with others.

Importance: Enables routing of data to and from the correct devices. [5 marks]

3. **Spreadsheet formula:** An instruction used in spreadsheet software to perform calculations (e.g., =SUM (A1:A5)).

[5 marks]

4. **Software license:** A legal agreement that defines how software can be used.

Type: Examples – End-User License Agreement (EULA), open-source license.

[5 marks]

5. Cloud storage: A method of storing data on remote servers accessed via the internet.

Benefits: Access files from anywhere; reduces need for physical storage.

[5 marks]

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SECTION C: Short Answer Questions (30 marks)

1.

- **Keyboard** used to input text.
- Mouse used to navigate and select items on screen.
 [2 marks per device = 4 marks]

2.

- **Portability** laptops are portable; desktops are not.
- **Power Source** laptops use batteries; desktops use constant power.
- Size laptops are compact; desktops are bulky.
 [6 marks]

3.

- Antivirus software scans files for known threats.
- It prevents malicious code from executing.
- Helps detect and remove viruses, trojans, and worms.
 [5 marks]

4.

- **Hardware** physical parts of a computer (e.g., mouse).
- **Software** programs/instructions (e.g., Microsoft Word). [5 marks]

5.

- **Poor ergonomics** can cause eye strain, back pain, RSI.
- **Improvements:** use adjustable chairs, place screen at eye level. [5 marks]

6.

- Ethical use involves respecting privacy, avoiding cyberbullying, and not copying work.
- Example of misuse: copying someone's assignment (plagiarism). [5 marks]

SECTION D: Scenario-Based Questions (25 marks)

1.

- Do not click on links.
- Report and delete the email.
- It's likely a phishing scam. [5 marks]

2.

- Install/update antivirus.
- Avoid downloading from unknown sources.
- Do regular scans. [2.5 marks each = 5 marks]

3.

- Cloud storage allows access from any device.
- Auto-backup prevents data loss.
- Saves space on local device. [5 marks]

4.

- Advantage: Fast and reliable communication.
- **Disadvantage:** Risk of spam or phishing. [5 marks]

5.

- Strong passwords prevent unauthorized access.
- Reduces chances of hacking and identity theft. [5 marks]

▼ TOTAL: 100 MARKS

THWORKS