

GENERAL CERTIFICATE OF EDUCATION BOARD
Technical and Vocational Education Examination

JUNE 2025

KAWLO

INTERMEDIATE LEVEL

Specialty Name and Acronym	All Specialties
Subject Title	Information and Communication Technology
Subject Code No.	0596
Paper No.	2

Duration: Two and a Half Hours

INSTRUCTIONS TO CANDIDATES

Answer FIVE QUESTIONS.

All Questions Carry Equal Marks.

Begin each question on a new page of the Answer Booklet.

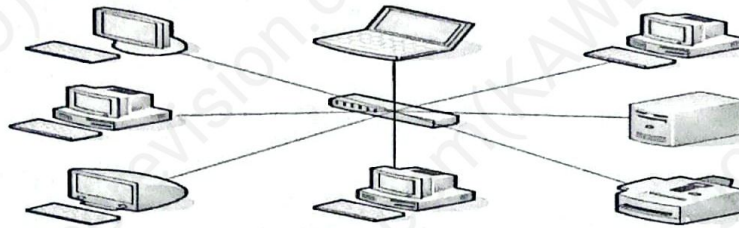
This paper carries 30% of the total weighted marks.

You are reminded of the necessity for good English and orderly presentation in your answers.

Turn Over

- 1) a) Software is the major component of a computer system.
 (i) Define computer software. (2 marks)
 (ii) State and explain 2 characteristics of software. (4 marks)
 (iii) Differentiate between Application software and system software. (2 marks)
 b) (i) What is an operating system? (2 marks)
 (ii) Outline and explain 2 functions of an operating system. (4 marks)
 (iii) Give 2 examples of different operating systems. (2 marks)
 c) (i) What do you understand by the term "Software piracy"? (2 marks)
 (ii) Give 2 ways that software piracy can be reduced in Cameroon. (3 marks)
-
- 2) Hardware refers to the physical and material elements of a computer system.
 a) (i) Classify the following Hardware under primary and secondary storage: (6 marks)
 RAM, Hard disk, flash memory, Rom, cache memory and CD-RW. (2 marks)
 (ii) Differentiate between impact and Non-impact printers. (2 marks)
 b) (i) What is Biometric technology? (4 marks)
 (ii) Explain 2 uses of a Biometric device. (4 marks)
 c) Differentiate between a scanner and a plotter in terms of functions. (4 marks)
-
- 3) The usage of the computer must take into consideration Health aspects.
 a) Define the following:
 (i) Ergonomics. (3 marks)
 (ii) Green computing. (3 marks)
 b) Give the causes and preventions of the following effects on computer users:
 (i) Eye strain. (4 marks)
 (ii) Repetitive strain Injury. (4 marks)
 c) The usage of ICT is very important in almost every domain of our daily life. Explain its usage in:
 (i) Banking. (3 marks)
 (ii) Education. (3 marks)
-
- 4) It is necessary to protect computer and computer data from accidental or intentional harm.
 a) (i) Define computer security. (2 marks)
 (ii) Give an example of a computer threat. (2 marks)
 (iii) Give 2 protective measures that can be used to combat computer crimes. (2 marks)
 b) (i) What is a computer virus? (2 marks)
 (ii) Outline 2 ways viruses can be prevented from damaging the computer system. (2 marks)
 (iii) Write in full the following acronyms:
 - UPS
 - URL (2 marks)
 c) Outline the functions of the following computer professionals:
 (i) Web Master. (2 marks)
 (ii) Database Administrator. (2 marks)
 (iii) Give two (2) qualities of a good Database. (2 marks)
-
- 5) a) (i) Data communication can be describe as simplex or Full duplex. Explain these data communication techniques giving suitable examples. (4 marks)
 (ii) Differentiate between an analogue and a digital signal (2 marks)
 (iii) Give Four (4) components of an information system. (4 marks)

- b) The diagram below shows a computer network Topology in a school:



- (i) Identify the network topology. (2 marks)
 (ii) Give the name of the device at the centre of the network. (2 marks)
 (iii) Name the network hardware that must be present on each workstation to enable the worked station to be connected to the network. (2 marks)
- c) (i) Give an example of a wireless transmission media. (2 marks)
 (ii) Give an example of a hardware resource that can be shared in a computer network. (2 marks)

- 6) Consider the spread sheet below:

M12								
	A	B	C	D	E	F	G	H
1	SN	Names	ENGLISH	French	Maths	ICT	Total	Average
2		Coefficient	5	5	5	2		
3		Alain Nkom	50	45	50	70		?
4		Achiri	70	50	40	45		
5		Tantoh	40	40	70	60		
6		Aban g	60	30	10	52		
7		Akow	30	70	20	45		
8		Subject Average						?
9								

- a) (i) Using cell references give the formula to determine the total coefficient in G2. (2 marks)
 (ii) Using the cell reference, give the formula to obtain the average of Alain Nkom in cell H3. (2 marks)
 (iii) Using the cell reference, give the formula to obtain the class average in cell H8. (2 marks)
- b) Define the following as used in Data protection:
 (i) Data subject. (2 marks)
 (ii) Data user. (2 marks)
 (iii) Define the term backup and give two (2) devices used for backing up data. (4 marks)
- c) State 3 components of the system unit with their functions. (6 marks)
- 7) Computer Information is represented using numbers.
 a) Define:
 (i) Data Representation. (3 marks)
 (ii) Data compression. (3 marks)
- b) List the two (2) number systems that are used by computers to represent data. (2 marks)
- c) (i) Convert the binary number 1010011_2 to decimal. (4 marks)
 (ii) Compute the binary expression $11001011_2 + 1011001_2$ (4 marks)
 (iii) Convert 8 GB to KB (4 marks)