REBURIQUE DU CAMEROUN

COL TOMOS COLOS

LES INSPECTIONS DES PEDAGOGIES

REGION DU SUD-QUEST

REPUBLIC OF CAMEBOON

PROCE - WORK - FAIREROIM

MINISTRY OF SECONDARY EQUICATION

INSPECTORATES OF REDAGOGY

SOUTH WEST REGION

R.M.G. 16815, BUEA

regi<u>on du Sud-Qu</u>est 2:00:6: 100:15: Bued

THE TEACHERS! RESOURCE UNIT (TRU)
Cellule d'appui à l'action Pédagogique

IN COLLABORATION WITH En collaboration aves

SUBJECT TEACHERS! ASSOCIATIONS (STA)

SOUTH WEST REGIONAL MOCK EXAMINATION

WEDNESDAY 24/03/2021 - AFTERNOON

ORDINARY LEVEL

Subject Title	COMPUTER SCIENCE
Paper Number	Paper 2
Subject Code Number	0595

Two hours

INSTRUCTIONS TO CANDIDATES:

Answer any EIVE questions.

All questions carry 20 marks each. For your guidance, the approximate mark for each part of a question is indicated in brackets.

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

In calculations, you are advised to show all the steps in your working, giving your answer at each stage.

Calculators are NOT allowed

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1.	 a) Information processing is concerned with input, processing, output and storage. i) Describe briefly, what happens at each stage. ii) Draw a labeled diagram with arrows, showing how signals move from one stage to another, b) i) Distinguish between data verification and data validation methods. ii) Given the list: proof reading, check digit, presence check, and double entry. Copy and complete table below. Data validation Data verification	
	Data validation Data verification	,
	c) i) Define a network topology, ii) Using a diagram with five nodes, describe a mesh topology and a star topology.	(2 marks) (6 marks)
2.	a) Consider the logic circuit below:	
	X X	
	 i) Write down the logic expression of the output X in terms of P and Q and in terms of A and B. ii) Complete the truth table below using the above circuit diagram 	(4 marks) (4 marks)
	A B P Q X 0 0 1 1 0 1 1	
	b) State any two positive impacts of computers peculiar to each of the following:	
	 i) Banking ii) Education c) Study the algorithm below and answer the questions that follow: 	(4 marks)
	1. Begin 2. Get X, Y	
	3. If $X > Y$, 4. $Z \leftarrow X$ 5. Else 6. $Z \leftarrow Y$	
	7. End If 8. Display Z. 9. End	
	i) State any two qualities of a good algorithm.	(2 marks)
	The state of the s	(2 marks) (2 marks)

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(2 marks)

(3 marks) (6 marks)

(3 marks)

(4 marks)

(4 marks)

(v) State clearly what the algorithm is designed to do,

o) Briefly describe any two user interfaces.

Write out the full meaning of the acronyms: SDLC, BIOS, DVD.

ii) State the roles of the following CPU components: ALU, CU, Registers.i) Draw a clear diagram showing the data communication cycle.

Give the role of each of the components of the data communication cycle.

i)

	4.	a)	Perform the following using binary arithmetic i) 1010 + 1101	
		b)	ii) 1100 – 11 i) Draw a sircuit diagram for the Boolean expression	(4 marks)
			$C = A + \overline{A} \cdot B$	4 marks)
				(2 marks)
		c)		4 marks)
			ii) To implement a new system, the strategies used can be: Direct Changeover, Phased implementation or Pilot implementation. Briefly describe each of	
				(6 marks)
	5,	a)		(3 marks)
				(2 marks)
		b)	iii) Give two differences between an operating system and an application software. State the main differences between the following:	(4 marks)
		МŻ	i) www and Internet	
			ii) Intranet and Extranet	
			int the same and the state of the same and t	(6 marks)
		ç)	Perform the following conversions i) The hexadecimal number EA3 to a binary number	(3 marks)
			il . the sharehand little lettilisher and an offerent seems at	(2 marks)
(۰ ۶.	a)	A 4GB flash drive contains three sets of files of sizes 512kB, 1024MB and 1.2GB.	Control of the contro
		,	7 77 77 77 77 77 77 77 77 77 77 77 77 7	(3 marks)
			ii) Determine the total size of all the files in MB.	(Imark) (2 marks)
		b)	iii) Determine then the remaining capacity in the USB flash in MB Differentiate between the following as used in data communication	2 marks)
		Ų)	i) Serial and parallel transmissions	
			ii) Synchronous and asynchronous data transmissions	
			11) + the withing and anti-	(6 marks)
	(;)	-/ Marrie an interest and inter	(2 marks) (6 marks)
		the same	II) Describe attenty the role of any times companions at an information system.	× 114. 4.2
,	7.	a)	Il Hits sten nermitaben mitte ett. mittettimme av exami fingerin av e. en a viden.	(4 marks)
			til mitte og admiliter av starte bostorer	(2 marks) (2 marks)
	ł))	1) Attitute in the proprietation of the property of the proprietation of the property of the p	4 marks) (4 marks)
	,	;)	(1) Diffic file Butter biber agentage indet term and that the build and the	(1 mark)
	. `		ii) State three examples of computer malware.	3 marks)
			iii) State and explain two ways to prevent a malware from attacking your computer,	4 marks)

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