# ZANZIBAR EXAMINATIONS COUNCIL



# CANDIDATES' ITEMS RESPONSE ANALYSIS REPORT FOR THE FORM THREE ENTRANCE EXAMINATION 2023

**234 ICT** 

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## **FOREWORD**

The Zanzibar Examinations Council is pleased to present this report on Items Response Analysis for the 2023 Form Three Entrance Examination in ICT subject. This report has been prepared in order to provide a feedback to students, teachers, parents, policy makers, curriculum developers and other educational stakeholders about the performance of the candidates in this subject.

Essentially, The Form Three Entrance Examination is the evaluation which intends to measure to what extent the candidates have learnt ICT in their two years of Ordinary Secondary Education. Through examination results, the candidates receive a grade that indicate their level of performance which help to make decisions whether they may continue to another level of education or not.

The report analyzed the achievements of the candidates on various aspects of understanding requirements of questions and the information needed to answer them correctly. Through analysis indicated that the candidates with higher scores earned them due to appropriate responses. Most candidates seem to have poor understanding due to the following reasons: incompetence in using English language skills, inability to differentiate the ICT terms and finally, most of them were unable to elaborate competences of the learned topics.

The detailed analysis displays that, samples from the candidates' scripts to show poor and good responses has been inserted. Finally, various figures with three different colours which reveals how individual question was performed have been attached.

Hence, the feedback and recommendations provided in this report will enable various stakeholders to take appropriate measures to enhance the performance of the future candidates in ICT subject through the National Examinations prepared in Zanzibar.

Finally, Zanzibar Examinations Council would like to express sincere appreciation to the Examination officers, School Inspectors, TC Coordinators, Education Officers, Head teachers, Teachers, One Design Company and all who participated in the completion of this report.

Dr. RASHID A. MUKKI

( K)

DIRECTOR
ZANZIBAR EXAMINATIONS COUNCIL

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## 1.0 INTRODUCTION

This report on ICT subject is based on the analysis of the performance of the candidates who sat for the Form Three Entrance Examination in 2023. The analysis of this report is based on the 2010 Syllabus of Tanzania and adhered to 2015 Zanzibar Form Two Examination Format of Zanzibar Examinations Council.

The Form Three Entrance Examination in ICT subject had twelve questions scattered in sections A, B and C. Questions from sections A and B were compulsory. Section A had two questions and section B comprised eight questions. Section C had two question in which candidates were required to opt only one question.

The number of candidates who sat for this examination in December, 2023 were 1,223. In this analysis, the candidates' scores for each question are interpreted as follows: from 00 to 29 percent is considered as poor, average if the scores range from 30 to 64 percent and good if the candidates' score from 65 to 100 percent.

These performance are shown by using different coloured figure, table and appendix. The colour presented are green colour means good performance, yellow colour means average performance and red colour means for poor performance.

## 2.0 ANALYSIS OF CANDIDATES' PERFORMANCE

This section presents the questions set for candidates in sections A and B. Also it presents the percentage of candidates who attempted the questions with those who got poor, average and good performance. Finally, the extracts of good and poor responses have been inserted.

## 2.1 SECTION A:

Section A was made up of TWO questions, multiple choice and matching items question. The marks awarded for a multiple choice question was 10 and that for matching item was 5 to make a total of 15 marks for this section.

## 2.1.1 Question 1: Multiple choice question

A multiple choice question was made up of 10 items (i to x) and there were four given alternatives from which the candidate had to select the correct alternative.

Different topics which are Computer, Computer network, Word processing and Spreadsheet from the syllabus of Information and Computer Studies for form 1 and Form 2 were used to construct ten items of this question. The candidate was required to choose the correct answers from the four given alternatives named as A, B, C and D.

Item (i): The item asked the candidate to select the correct application of mouse in computing. The given alternatives were

A: Small destructive rodent B: Device used fortyping

C:Device that controls a pointer on the screen

D:Round plastic container with a tail

Item (ii): The candidate required to identify the two type of processor. The given alternatives were:-

A:RAM and ROM B: Risc and Cisc

C: Intel and AMD D:LU and CU

Item (iii): In this item, candidate was required to choose an item which is not dangerous to the computer. The given alternatives were:-

A: WaterB: Smoke C: Dust D: Proper ventilation

Item (iv): The item required the candidate to choose the alternative that can be represented by one byte. The alternatives were,

A: One character B: Eight characters C:Sentence ....... D:Eight Bits

Item (v) wanted the candidate to choose the correct purpose of using power supply unit. The given alternatives were,

A:to convert AC to DC B:To convert DC to AC

C: To keep AC voltage constant D: To keep DC voltage constant

Item (vi), the item required the candidate to choose an alternative which is not a port. The alternatives were,

A: Ps/2 B: USB C: 1pt D: Nic

Item (vii) .The item required the candidate to select the language which is understood by computer.

The given alternatives are

A: Computer understand only C language

B: Computer understand only Assembly language

C: Computer understand only binary language

D: Computer understand only basic language

Item (viii): candidate was asked to choose an alternative tat is used to save changes in a document previously saved.

The alternatives were:

A: Ctrl+v B:Ctrl+s C:Ctrl+z D: Ctrl+b

Item (ix), the item appeared as follow,

"Formula and function in a spread sheet must begin with".

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Candidate has to choose the correct answer from the following alternatives,

Item(x): Candidate was required to choose the alternatives that represent a brain of a computer. The given alternatives were,

A: Central processing Unit B: memory

C: Arithmetic and Logic Unit D:Control Unit

The total marks for this question was 10

The question was attempted by 1,237 which is equal 99.91 percent and 1 candidate which is equal to 0.08 percent did not attempt it. The analysis for the candidate's performance is summarised in the table 1a below.

Table 1a: Analysis of the candidates' performance

PERFORMANCE ANALYSIS							RALL RMANCE
POOR		AVER	AGE	GO	OD	1 LIG 01	.tt/II II (CL
0 - 2	0 - 2.5		3 - 6		6.5 - 10		
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
125	10.11	955	77.20	157	12.69	1,112	89.89

The analysis of data shows that **77.20** percent of the candidates have average score and this is the major contribution toward good overall performance for this question

There were 125 candidates (which are equal to 10.11 percent) with poor performance as an indication of scarce knowledge on the topics used to construct this question. Extract 1.1 is a sample of poor scoring achieved by one of the candidates.

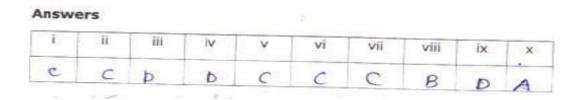
Extract 1.1



Extract 1.1 is a sample of poor responses provided by one of the candidate. The candidate understood what he/she was asked in the question but due to lack of knowledge he/she managed to choose correct alternative in only one item(item x) out of ten given items.

A total of **157** candidates which is equal to **12.60** percent performed well in this question as they managed to score from 6.5 to 10 marks. The candidates reveal the clear understanding of what they were asked and had adequate knowledge on the topics involved in this question. Extract 1.2 show the good responses provided by one of the candidates.

## Extract 1.2



Extract 1.2 is a sample of good answers provided by one of the candidates who scored high marks in this question.

The candidate was able to choose correct alternatives in nine (9) items out of ten given items of the question. The alternative in which the candidate choose incorrect alternative was in item five (v).

# 2.1.2 Question 2: Matching items

In a matching item question, the candidate was given a table consisting of applications of various software on one side and type of software on the other side. The candidate was required to match the application of software with the appropriate type of software.

The question was constructed from the topic "Computer software". It consisted of 5 matching items and the candidate was asked to match the applications of different software in column A with the type of software in column B. Each item in this question carries 01 mark to make a total of 5 marks.

The total number of candidates who attempted the question was 1,236 which is equal to 99.84 percent and while 2 candidates which is equal to 0.16 percent of the registered candidates did not attempt the question. Table 1b demonstrates the summary of analysis of candidate's performance in this question.

Table 1b: Analysis of the candidates' performance

PERFORMANCE ANALYSIS							RALL RMANCE
POOR AVERAGE				GOOD		1 Liu oi	dvn n vel
0 - 1		1.5 - 3		3.5 - 5			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
443	35.84	433	35.03	360	29.13	793	64.16

According to the data analysis, 35.03 percent and 29.13 percent of the candidates have an average and good performance respectively. The overall performance for this question is good.

The performance of **443** candidates which is equal to **35.84** percent was poor. Extract 2.1 shows the poor responses extracted from a script of one of the candidate.

## Extract 2.1

#### **Answers**

İ	ii	iii	iv	V	
C	D	D	G	1	

Extract 2.1 is a typical example of responses extracted from the script of a candidate whose performance is poor in this question. The candidate match correctly in only item (item(iii) and this led him/her to score 1 mark out of five (5) marks allocated for this question.

A total number of candidates with high score were **360** and this is equal to **29.13** percent of the candidates who attempted the question. The sample of good answers given by the candidates is shown by extract 2.2

## Extract 2.2

## **Answers**

. i	ii	iii	iv	V
1	F	B	E	H

Extract 2.1 shows a sample of responses given by a candidate who scored high marks as he/she managed to match correctly the applications of different software in column A with the respective software column B.

## 2.2 **SECTION B**:

Section B was made up of eight (8) short answers questions (question number 3 to question number 10) constructed from various topics covered in Information and Computer Studies syllabus for form 1 and form 2. The marks awarded for question number three was five (5) while ten (10) marks was awarded to each of the remaining seven questions to give a total of 75 marks for this section.

## 2.2.1 Question 3: Computer software

This was a short answer question consisted of two parts (a and b) constructed from the topic of computer software. The question appeared as follow:

- a) Briefly explain the term operating system.
- b) Identify any two (2) types of operating system. The total marks allotted for this question was 5.

There were 1,223 candidates who attempted the question and this equal to 98.78 percent. The number of candidates who did not attempt the question was 15 which is equal to 1.21 percent. The analysis for the candidate's performance is summarised in the table 2a below.

Table 2a: Analysis of the candidates' performance

PERFORMANCE ANALYSIS							RALL RMANCE
POO	OR	AVERAGE		GOOD		T ETG 01	ATT I VOL
0 -	- 1	1.5 - 3		3.5 - 5			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
796	65.09	233	19.05	194	15.86	427	34.91

The analysis of data in table 2a reveals that about 65.09% of the candidates scored poorly and 34.91% of the candidates scored between 1.5 and 5 marks which contribute to the overall performance for this question to be average.

About 796 candidates which equal 65.09% scored poorly as an indication of insufficient knowledge on what they were asked in a question as it can be seen in extract 3.1

## Extract 3.1

	Briefly explain the term operating system.	reen	ed to as
	Storld logic, 150	, com	binatica
	of both the herody		and
	soft ware attached	ona	single
	Silicon Chip	-	

Hard ware and
Software

Extract 3.1 illustrates the answer provided by a candidate with poor performance in this question. In part (a), the candidate provide information that do not give correct meaning of the termoperating system. In part (b), Instead of identifying the types of operating system, the candidate wrote the words **Hardware** which means a physical part of a computer and **soft ware** which means the instructions given to a computer.

A total of **194** candidates which is equal to **15.86%** performed well in this question as they managed to score from 6.5 to 10 marks. The candidates show the clear understanding of what they were asked and this is evidenced by extract 3.2

## Extract 3.2

3.	a)	Briefly explain the term operating system.
3.	u)	ob a fine halten all part of a requisite
		Restem that manages all me hard
		hesten That manager on he LINUX,
		Trans and first ware - Example Livery
		war was significant (OS) x brud
		UNIX, Windlier, mar (US) x bund
		KATA II ME
		afvers.
b	) . Id	lentify any two (2) types of operating systems.
139.5		atch chair thing
	1	Satch Operating System.
	111	(ine - Sharing operactions sixtem.
	-/-	The similar offer wing system.

Eextract 3.2 is an example of correct answers in this question.

In part (a), the candidate presents good explanation on the term operating system.

In part (b), the candidate manage to identify correctly the two types of operating system

# 2.2.2 Question 4: Computer handling

The topic used to construct the question is computer handling. The question is made up of two parts, a and b.

In part (a), there were items (i) and (ii). Item (i), asked the candidate to explain the importance UPS and voltage Stabilizer.

In part (b), a candidate was required to explain the problems that may occur if a computer power supply is connected to a wrong voltage rating,

The question was attempted by 1,154 candidates which are equivalent to 93.21 percent and 84 candidates (which is 6.78 percent) did not able to attempt the question.

The performance of candidates has been analysed and summarised in table 2b below

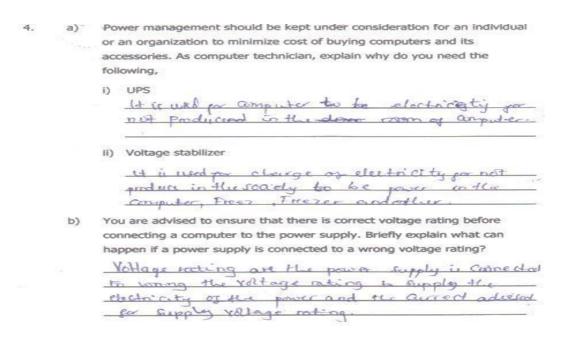
Table 2b: Analysis of the candidates' performance

PERFORMANCE ANALYSIS							ERALL RMANCE
POOR AVERAGE GOO				OD	1 Liu oi	CIVII II VOL	
0 - 2.5		3 - 6		6.5 - 10			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
623	53.98	355	30.76	176	15.25	531	46.01

The data analysis in table 2b shows that about 53.98% of the candidates performed poorly and thus the general performance for this question is 46.01 which is an average.

There were **623** candidates which is equal to **53.98%** who scored from 0 to 2.5 marks as an indication of poor understanding on what they were asked and this is revealed by extract 4.1

## Extract 4.1



Extract 4.1 is a sample of responses given by one of the candidates who failed to give the required answers in this question. With reference to the information presented in the extract, a candidate has some ideas on UPS and Voltage stabilizer but he/she do not understand the functions performed by these two devices.

A total of 176 candidates which is equal to 15.25% scored high marks in this question. The candidates demonstrate clear understanding of what they were asked and this is shown by extract 4.2

## Extract 4.2

	<b>-</b>
a)	Power management should be kept under consideration for an individual
	or an organization to minimize cost of buying computers and its
	accessories. As computer technician, explain why do you need the
	following,
	i) UPS
	· UPS stands for uninterraptable power
	Supply which is used to supply power to
	the computer when there is no electricity
	15 OF 2011-
	ii) Voltage stabilizer
	· Voltage stabilizer is used to papormalize
	and central the amount of
	Voltage in the circuit
2.0	
b	A STATE OF THE STA
	connecting a computer to the power supply. Briefly explain what can
	happen if a power supply is connected to a wrong voltage rating?
	- The computer will not be working due to
	line voltage or the tuse will
	break because the vottage and
	- William January
	or wire may be too much fe

Extract 4.2 is an example of good responses as extracted from the script of a candidate who performed well in this question.

The candidate explains the purposes of using UPS and voltage stabilizer.

He/She also explained clearly what may happen if a power supply is connected to the wrong voltage rating.

# 2.2.3 Question 5: Word processing

This question was constructed from the topic of word processing. The question is divided into two parts (a and b). In part (a), the candidate was required to explain the importance of page setup as elated to printing of document and Part (b) required the candidate to explain step by step how to related a document. The total marks for this question was 10.

The question was attempted by 1,181 candidates which is equal to 95.40 percent while 57 candidates (which is 4.60 percent of the candidates) did not attempt the question. Table 2c show the summary for the analysis of candidate's performance in this question.

Table 2c Analysis of the candidates' performance

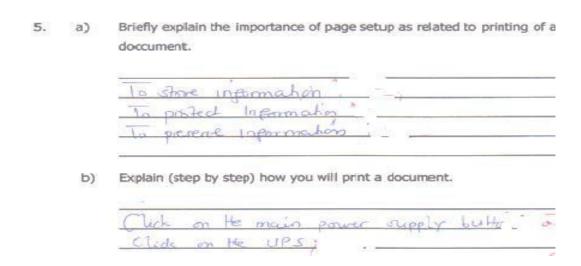
PERFORMANCE ANALYSIS							ERALL RMANCE
POOR AVERAGE			GOOD				
0 - 2.5		3 - 6		6.5 - 10			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
329	27.86	584	49.45	268	27.69	852	72.14

The data analysis in the table 2c indicates that 49.45% of the candidates had average performance and

**27.86** percent had good performance and hence the overall performance for this question is good.

The performance of **329** candidates which is **27.86%** was poor and this is due to poor understanding of candidates on what was demanded by the question. Extract 5.1 is a sample of poor responses from one of the candidates.

## Extract 5.1

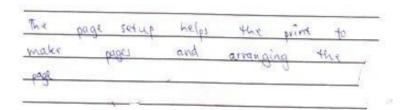


Extract 5.1 Display the answers presented by a candidate who scored zero mark in this question. The candidate failed to give correct answers in both parts of the question. In part (a) the candidate was not able to explain the importance of page set up as required, he/she wrote sentences related to storage and presentation of information. In part (b), the candidates provide some of the steps to be followed if you want to turn ON the computer instead of steps required to print a document.

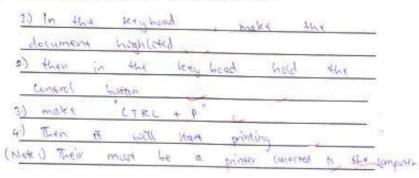
There were **268** candidates which is equal to **27.69%** who managed to score high marks in this question. The candidate demonstrates a good understanding on what was required by the question as illustrated by extract 5.2

## Extract 5.2

 a) Briefly explain the importance of page setup as related to printing of a doccument.



b) Explain (step by step) how you will print a document.



In extract 5.2, the candidate correctly explained the importance of page set up as related to printing of a document. The candidate also explained step by step on how to print a document.

## 2.2.4 Question 6: The Internet

This question consisted three parts (a, b and c) constructed from the topics of Internet. Part (a) is subdivided into two part item (i), item (ii) and item (iii).

In part (a), candidate was asked to write brief explanation on the term electronic mail, internet and search engine.

In part (b), candidate was asked to explain the uses of internet in business.

Part (c) required the candidates to explain the negative effects of internet on culture.

The question was attempted by 1,222 candidates which is equal to 98.71 percent, the number and percentage for those who failed to attempt the question was 16 and 1.29 respectively. The analysis for the candidate's performance is summarised in the table 2d below.

Table 2d: Analysis of the candidates' performance

PERFORMANCE ANALYSIS						OVERALL PERFORMANCE	
POC	OR .	AVER	AVERAGE		GOOD		
0 - 2.5		3 - 6		6.5 - 10			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
359	29.39	503	41.16	360	29.45	863	70.61

Table 2d displays a summary of candidates' performance in this question. The data shows that the general performance of candidate is good as **70.61** percent of the candidates managed to score from 3 to 10 marks

About **359** candidates which is equal to **29.39** percent scored from 0 to 2.5 marks as an indication of poor performance. The candidates failed to understand the requirements of the question .Extract 6.1 are an evidence of poor performance in this question

## Extract 6.1

6.

i) Electronic mail

15. 50 to not poplication

500 to rece and haderwere

10. 500 to rece and haderwere

11. Internet

12. 11. 200 500 to 100 
Write short explanation on the following terms,

	III) Search engine
	Are sil our procession or ande
	and User ore growing themes
	mormon - Lines
0)	Suppose that you are business man (or woman), use three (3) points to
9	explain how an internet helps you in your business activities.
	explain now an internet helps you in your business activities.
1 4	HALD processing or only one
-	User program in the most memo
	The to Knowl and
1	della colonida de la colonida del colonida de la colonida de la colonida del colonida de la colonida del colonida de la colonida de la colonida de la colonida del colonida de la colonida de la colonida de la colonida del col
11)	as 15 20 secus miduled 2 of mich
	only one person
1	The program that enclosed could
)	was and over so to tolice
	DELLAM CACHE BURGER L'ENDION
c)	Use two (2) points to explain how internet may negatively affect our
	culture.
	11
0	Device that controls apainter
-	

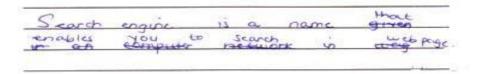
Extract 6.1 is a sample of answers from a candidate who gives wrong answers.

Due to poor English language and writing skills of the candidate, it is difficult to understand the answers given by a candidate.

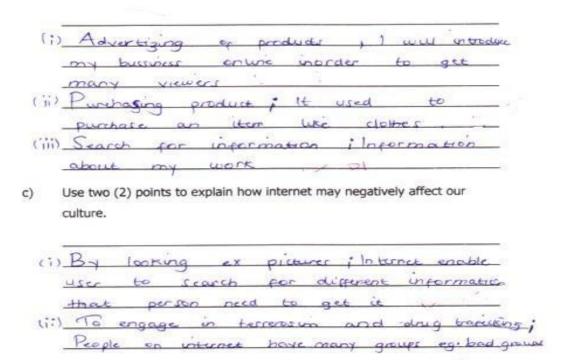
The number of candidates who performed well in this question is **360** which is equal to **29.45** percent. The candidates understood the requirements of the question and were able to provide correct answers illustrated by extract 6.2

## Extract 6.2

iii) Search engine



 Suppose that you are business man (or woman), use three (3) points to explain how an internet helps you in your business activities.



Extract 6.2 demonstrate the sample of good candidate's responses. The candidate was able to give correct explanation on the terms- electronic mail, internet and search engine. In part (b), the candidate managed to give explanation on how the internet is useful in daily business activities. The candidate also was able to explain the negative effects of internet on the culture of a particular society.

# 2.2.5 Question 7: Computer software

The question had three parts (a, b and c) which are constructed from the topic of computer software found in form 1 and form 2 computer syllabus. Part (a) required the candidate to give the difference between system software and application software. In part (b) the candidate was asked to write the functions of operating system. In part (c), the candidate was required to identify four types of operating system.

There were 1,218 candidates who attempted the question; this is equal to 98.34 percent of the registered candidates. A total of 20 candidates which is about 1.62 percent did not attempt the question. The performance analysis for the question is shown in table 2e below

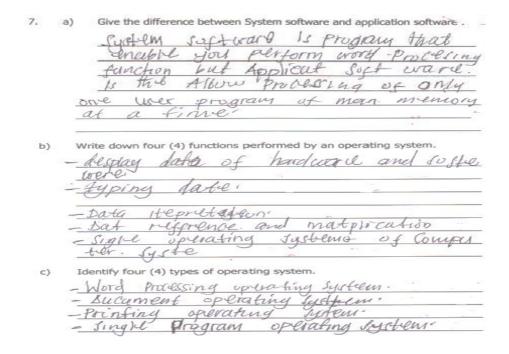
Table 2e: Analysis of the candidates' performance

PERFORMANCE ANALYSIS						OVERALL PERFORMANCE	
POOR AVERAGE			GOOD		T EIG OI	MVII II VOL	
0 - 2.5		3 - 6		6.5 - 10			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
746	61.25	377	30.96	95	7.79	472	38.75

The performance analysis demonstrates that about **38.75** percent of the candidates had average performance, **7.79** percent had good performance and this contributes to the average overall performance in this question.

The analysis also shows that **746** candidates which are equal to **61.25** percent had poor performance in this question. The candidate did not understand the requirements of the question as can be seen in extract 7.1

## Extract 7.1



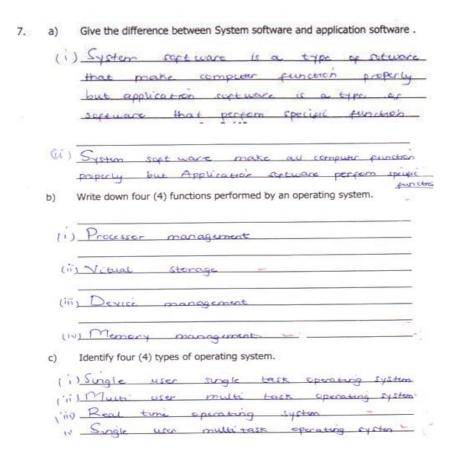
Extract 7.1 is a sample of poor responses as extracted from a script of a candidate. The candidate did not able to give correct differences between system software and application software.

The candidate explained that the system software perform the functions which are performed by application software which is not correct.

In (b), He/she state the functions of monitor and storage devices instead of the functions of operating system. In part (a) He/she also failed to write the functions of operating system in part (b). The candidate managed to identify only one (1) type of operating system in part (c) of the question.

Only **95** candidates which is equal to **7.79** percent performed well and managed to score high marks in this question. The candidates show the clear understanding of what they were asked as it can be observed in extract 7.2

## Extract 7.2



Extract 7.2 is an example correct answer provided by one of the candidates. The differences between system software and application software have been well presented by a candidate. The candidate managed to write correctly the functions performed by operating System. The types of operating systems are well identified by a candidate.

## 2.2.6 Question 8: The computer

The question consisted of two parts (a and b) constructed from the topic "the computer".

In part (a), candidate was asked to write short explanation on the term Central processing Unit(CPU) while in part (b) the candidate was required to make analysis on the two functions performed by each part of a CPU.

The question was attempted by 1,191 candidates which is equal to 96.20 percent while 47 candidates (which are 3.80 percent) did not attempt the question. Table 2f shows the summary for the analysis of candidate's performance in this question.

PERFORMANCE ANALYSIS **OVERALL** PERFORMANCE **AVERAGE POOR** GOOD 6.5 - 103 - 6 0 - 2.5**TOTAL** TOTAL % **TOTAL** % **TOTAL** % 32.49 304 187 500 41.98 25.52 804 67.51

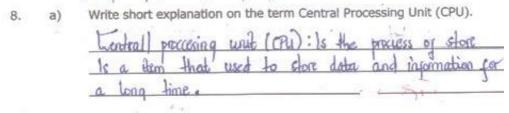
Table 2f Analysis of the candidates' performance

The data analysis in table 2f shows that **41.98** percent of the candidates obtained average score and **25.52** 

percent had good score and the general performance for this question is good

Also, the data analysis has identified **187** candidates which are equal to **32.49** percent who performed poorly. Extract 5.1 is a sample of poor responses from one of the candidates.

## Extract 8.1

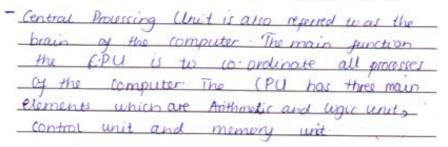


 Arithmetic and Logic Unit, Control Unit and Memory (or Storage) Unit are three main parts of CPU. Analyse two (2) functions performed by Extract 8.1 shows the sample of poor candidate's responses. The candidate provided incorrect answers in both parts of the question. For example, the candidate explains that CPU is used to store data and information which is not correct. Data and information are stored by using storage devices and not CPU

About **304** candidates which is equal to **25.52** percent scored between 6 and 10 marks as an indication of good performance .Extract 8.2 displays good responses from one of the candidates.

## Extract 8.2

8.	a)	Write short	explanation	on	the	term	Central	Processing	Unit	(CPU)	
----	----	-------------	-------------	----	-----	------	---------	------------	------	-------	--



 Arithmetic and Logic Unit, Control Unit and Memory (or Storage) Unit are three main parts of CPU. Analyse two (2) functions performed by each part of the CPU.

	and logic Unit:  Arithmetic and logical functions
ii) Returns	a value to an expression
· (ontrol	unit
1) Coordinat	the CPU and coordination with other units of the CPU.
(i) Controlli	go and coordination with othe units of the (P)
· Memory	writ
i) Is used	to store data or file temporarily
11/10	date and instruction while the CPU works with the

Extract 8.2 demonstrate the sample of good candidate's responses. The candidate was able to give short explanation on the term Central processing Unit. The functions performed by each part of CPU have been well analysed by the candidate as shown in the extract.

## 2.2.7 Question 9: Computer evolution

The question is constructed from the topic "Computer evolution". It consists of two parts (a and b).Part (a) of the question required the candidate to give the differences between calculator and computer and part (b) asked the candidate to identify characteristics of the first generation of computers.

The question was attempted by **1,204** candidates who are equal to **97.25** percent; the number of candidates who failed to attempt the question was **34** which is equal to **2.75** percent of the total number of registered candidates. The analysis for the candidate's performance is summarised in the table 2g.

Table 2g: Analysis of the candidates' performance.

PERFORMANCE ANALYSIS						OVERALL PERFORMANCE	
POOR AVERAGE			GOOD		1 Liu oi	dviruveE	
0 - 2.5		3 - 6		6.5 - 10			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
309	25.66	460	38.21	435	36.13	896	74.34

Table 2g displays a summary of candidates 'performance in this question. The data analysis shows that the **38.21** percent of the candidates had average score and **36.13** percent had good score and hence the general performance for this question is good.

On the other hand, the analysis reveals that **309** candidates which is equal to **25.66** percent performed poorly in this question as indicated by extract 9.1

	differences between calculator and a computer.
	Calculate Hused to simplify
	Computers + used to simply hadd work example notes. Example notes. Example duter . c
b)	Every computer generation is associated with specific characteristics.  Identify four (4) main characteristics of the first generation of computers.
	The first generation of computers is very simplify file of in the computer network
with poor scor	a good example of responses extracted from the script of a candidate re. The candidate failed to give the difference between computer and e candidate also failed to identify the characteristics of first generater.
10 marks as an	35 candidates which is equal to 36.13 percent scored between 6.5 and in indication of good performance. Extract 9.2 display good responses rom the script of one of the candidates.
Extract 9.2	
9. a)	Computers and calculators are widely used in everyday life. Give three (3) differences between calculator and a computer.
	i) A calculator is a special purpose computer while a computer is a multi-purpose computer
	ii) A calculator does not allow the installation of application programs while a computer allows the
	installation of application installation

9. a) Computers and calculators are widely used in everyday life. Give three (3)

iii) A calculator cannot be connected to the

b) Every computer generation is associated with specific characteristics.

They were very large in size

i) They emmitted a lot of heart

internet but a computer can be connected to athe

They had a very small memory (storage) capacity IN) They were very slow in terms of processing speed

Identify four (4) main characteristics of the first generation of computers.

Extract 9.2 is a typical example of good candidate's responses.

The candidate was able to give the differences between calculator and computer.

In part (b), the candidate managed to identify the main characteristics of the first generation of computers.

## 1.1.8 Question 10: Information

This question consisted of three parts (a, b and c) constructed from the topic "**Information**"

The question appeared as follow:

- a) Convert the following
  - i) 3GB to KB ii) 8MB to Bytes
- b) Explain the importance of information to the society
- c) Give four differences between traditional ways and modern ways of disseminat ing information The total marks for this question was 10.

The question was attempted by 1,203 candidates which is equal to 97.17 percent and 35 candidates which is 2.83 percent of the total number of candidates did not answer the question. The analysis for the candidate's performance is summarised in the table 2h below.

Table 2h: Analysis of the candidates' performance

PERFORMANCE ANALYSIS						OVERALL PERFORMANCE	
POOR AVERAGE			GOOD		1210 01	.c.m.ii.vo.ii	
0 -2	0 - 2.5		3 - 6		6.5 - 10		
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
210	17.46	503	41.81	490	40.73	993	82.54

Table 2h illustrates the candidates' performance in this question. The data analysis shows that 41.81 percent of the candidates had average score and 40.73 percent of the candidates had good score, therefore the general performance in this question is good

Also, the analysis shows that there are 210 candidates which is equal to 17.46 percent who scored from 0 to 2.5 marks as an indication of poor performance. The candidates failed to understand the requirements of the question. Extract 10.1 exhibits a sample the poor performance in this question.

a)	Convert the following
- 1	) 3GB in to KB
	36B into KB
	G-B
	= 348
	i) 8 MB in to Bytes
	& page
	AND STATE OF THE S
	= Object .
	Give four (4) differences between traditional ways and modern ways of disseminating information.
	i) Fraditional little process of traditional in a Computer While modern way istle processor mordern in a Computer is Traditional way are compact buybod, mouse,
	moniter tillile medira way are compart phone.
	ii) Traditional of le used of computer room while
	morden way it is used for society.
	1) Traditional way are composit information of the
	thone while modern are composition of magazine

Extract 10.1 exhibits wrong answers given by a candidate who scored low marks (0 to 2.5 marks). The candidate failed to to make conversion of units in part (a) of the question. Not only that, he/she also failed to explain the importance of information to the society and the differences between traditional ways and modern ways of disseminating information.

In part (a) the candidate did not able to perform conversion of units and he/she wrote 3KB and 8bytes which are equal to 3GB and 8MB respectively

The candidate state that, traditional ways use computer and phone. These devices are used in modern ways of disseminating information and not in traditional ways

About 490 candidates which are equal to 40.73 percent had good score as they understood the requirements of the question that led them to obtain high score. Extract 10.2 is a sample of good responses given by one of the candidates.

# Extract 10.2

10. a)	Convert the following
	i) 3GB in to KB 2 3,000 bytes 2 3,000,000,000 bytes
	2 byte = 1GB=1,000,000,000 bytes x = 1 x 3,000,000
	3GB = x
	x = 368x (,000,000,000 kg x = 3,000,000 KB
	1 648 1 . 368 = 3,000,000 KB
	ii) 8 MB in to Bytes
	1 MB = 100,000 bytes x = 8,000,000 bytes
	8MB × X
	X = 8MB x 1,000,000 bytes . ". 8MB = 8,000,000 bytes
b)	Explain the importance of information to a society (Use two (2) points).
473.6	- points).
	* Creates awareness: Different information displayed in
	different areas to it used to acce awareness about
	a cutain disease or anything
	ii) As Gaining new knowledge: Information also provider
	new knowledge to the society by displaying it
c)	
c)	Give four (4) differences between traditional ways and modern ways of disseminating information.
	.) @
	i.) The traditional method of disseminating information
	is very low but the modern ways of disseminating
98 (9)	unformation are fast
	ii) The traditional methods of directionating information
	reaches a small number of people (Not everyone
	gets the information but the modern ways of disseminating
	information raches a large group or number of people
	11) The finditional method of disceminating information con
	few and basic information while the modern ways contain a but of informations.
	Page 10 of 15
The tradition	al ways of dissiminating information involves materials ruch of dre

In Extract 10.2 the good responses provided by one of the candidates have been shown. The candidate was able to do correct conversion of units. The importance of information have been well explained by the candidate. The candidate reveals his/her strong ability in providing differences between traditional ways and modern ways of disseminating information.

## 2.3 SECTION C

Section C was made up of TWO (2) long answers questions (question 11 and question 12) constructed from two different topics (**The computer** and **Spreadsheet**) found in Information and Computer Studies syllabus for form 1 and form 2. The candidate was required to choose only one (1) question. The marks awarded for this section was 10 from each question.

# 2.3.1 Question 11: The Computer

The question was made up of three parts named as a, b and c.

In part (a), the candidate was asked to explain the term primary memory.

Part (b) of the question required the candidate to state the main function of RAM and in part (c), the candidate asked to show the differences between RAM and ROM.

The total number of candidates who attempted the question was 562 which is equal to 45.40 percent while

676 candidates (equal to 54.60 percent) did not attempt the question.

Table 3a: Analysis of the candidates' performance

PERFORMANCE ANALYSIS							OVERALL	
							RMANCE	
POOR AVERAGE			GOOD					
0 - 2.5		3 - 6		6.5 - 10				
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%	
344	61.22	138	24.55	80	14.23	218	38.78	

The overall performance in this question is average as only **38.78** percent of candidates managed to score between 3 and 10 marks.

The data analysis summarised in the table 3a shows that **61.22** percent of the candidates performed poorly and their marks range between 0 and 2.5 and this is an indication of lack of adequate knowledge on the topic tested in this question.

Extract 11.1 shows the poor responses as extracted from one of the candidates

11.	a)	Briefly explain the term primary memory.
		Primary memory are the memory of the documen
		letter small and very importance of the momputor
	b)	State the main function of a RAM,
		1) It is weld por very sheep in Verew data.
		ii) It is wed for fact in the computer
	c)	Show three (3) differences between RAM and ROM.
		DRAM are the Radom arresing memory which Rom
		Read only memory.
		Rom is used for computer logtware.
		hillan It is glad in the Computer willede

Extract 11.1 displays the sample of poor answers provided by one of the candidates. The sentence written in (a) is not clear and do not provide the meaning of primary memory. The candidate failed to how clear differences between RAM and ROM even though he/she wrote the long form of RAM and ROM.

The analysis also found that **80** candidates which is equal to **14.23** percent performed well in this question. Extract 11.2 is sample of good answers provided by one of the candidates.

## Extract 11.2

. a)	Briefly explain the term primary memory.
	Primary memory of the mampay that is directly
	accessible by the CPU-This memory is
	used to store data or files ptemponery.
t	State the main function of a RAM.
	- The main function of a RAM is to
	hold data and instructions temporarily
	as the CPU works with them
	c) Show three (3) differences between RAM and ROM.
	i) The RAM is volatile which means that its consent
	gets inst when the computer is switched off but the
	ii) The RAM can be read, changed and copied but
	ROM can not be read; changed and copied
	iii) The RAM is used to hold data or instructors
	while the CPU works with them but ROM is
	a per trimware used to sture data or instruction permanent

Extract 11.2 is an example of correct answers provided by one of the candidates. In part (a), the candidate presents good explanation on the term primary memory. In part (b), the candidate manages to state the main function of a RAM. In part (c), the candidate was able to show the differences between RAM and ROM

# 2.3.2 Question 12: Spread sheet

This is a long answer type question and had two parts (a and b). In part (a), the candidate was re required to explain the term cell as used in spread sheet. The candidate also was asked to give the meaning of letter D and number 5 in a cell named as D5

In part (b), the candidates was a given a table filled with various data and asked to give the answers related to the data in a given table. The question basically tested the understanding of candidate on Excel program. Table 3b is a summary for the analysis of candidate's performance in this question.

The total number of candidates who attempted the question was 562 which is equal to 51.86 percent while 596 candidates (equal to 48.14 percent) did not attempt the question.

Table 3b: Analysis of the candidates' performance

		ERALL RMANCE					
POC	OR	AVER	AGE	GOOD		1 Liu oi	din n vez
0 -	2.5	3 -	· 6	6.5 - 10			
TOTAL	%	TOTAL	%	TOTAL	%	TOTAL	%
251	39.10	160	24.92	231	35.98	391	60.90

The data analysis shows that **35.98** percent of the candidates performed well as they scored between 6.5 and 10 marks and this contributes to the availability of average overall performance in this question.

Also, analysis shows that **39.10** percent of the candidates performed poorly. Extract 12.1 is a sample of poor responses for this question.

## Extract 12.1

- a) i) Write brief explanation on the term cell.

  Cellisth sonoll arre an their store charge in the circuit

  ii) If one of the cell on a spreadsheet is named as DS,

  The letter D represents Pistance

  Number 5 represents five
  - Study the spreadsheet table below and then answer the questions that follow.

	A	В	C	D	E	_ F	G
S/N	REG. NUMBER	NAME OF STUDENT	ARABIC	MATH	ENGL	TOTAL	AVERAGE
3	001	SULEIMN JAFFAR	34	45	32	111	VII
4	002	AZZA MGUBI	30	34	38	102	VIII
5	003	JULIUS JAMES	56	39	54	149	17
6	004	FATMA SAAD	66	12	67	145	V
7	005	JAMILA NOUR	34	23	23	80	1X
8	006	ZULFIYA MSELWA	44	65	34	143	NI
9	007	MANDOLWA MAIKO	89	78	45	212	1
10	008	RUBEN MSHEBA	80	65	65	210	11
11	009	SOPHIA NDALA	25	98	76	199	111

## Write a formula

- i) That will help you to find the average scored by SULEIMAN JAFFAR
- To be used if you want to calculate the sum of marks obtained by JAMILA NOUR
- iii) That will help you to determine the minimum marks on English subject.

(i) Th	re .	average	of	sult	MAN	JAFF	AR is
Seuc	en	(NU)					
(ii) A	u	marks	OF J	AMILA	NOU	cr is	Eighn
(80)			1				
(III) /	911	marks	of	Eng l	ish s	abject	12 404

Extract 12.1 show the responses from one of the candidates with poor scoring. Answers in all parts of the question were not correct. In part (a), the candidate wrote a definition of cell in relation to electric circuit instead of spreadsheet. In part (b), the candidate failed to write all required formulae.

There were 231 candidates which is equal to 35.98 percent who understood the requirements of the question and also had satisfactory knowledge that enabled them to provide good responses as shown by the extract 12.2

## Extract 12.2

12. a) i)	Write brief explanation on the term cell.	
	Cell : 4 the intersection or new	
	or and columns in the opposed	
	theret per program'	
	Commercial	

- Study the spreadsheet table below and then answer the questions that follow.

	A	В	С	D	E	F	G
S/N	REG. NUMBER	NAME OF STUDENT	ARABIC	MATH	ENGL	TOTAL	AVERAGE
3	001	SULEIMN JAFFAR	34	45	32		
4	002	AZZA MGUBI	30	34	38		
5	003	JULIUS JAMES	56	39	54		
6	004	FATMA SAAD	66	12	67		
7	005	JAMILA NOUR	34	23	23	-	
8	006	ZULFIYA MSELWA	44	65	34		
9	007	MANDOLWA MAIKO	89	78	45		
10	008	RUBEN MSHEBA	80	65	65		
11	009	SOPHIA NDALA	25	98	76		

#### Write a formula

- i) That will help you to find the average scored by SULEIMAN JAFFAR
- To be used if you want to calculate the sum of marks obtained by JAMILA NOUR
- iii) That will help you to determine the minimum marks on English subject.

这	Solution		
1) Avera	ge of Sale	iman Ja	year .
	=(C3 + D3)	+E3)/3	70
illhe o	un of Jo	amila 1	Jour marts,
	= CT+ D7	+ 57	
111 041		E-C-SERIES	
111) Minimeen	marks or	n English	· cubient
= 1	11N(E3: F.1	1)	100

Extract 12.2 exhibits the sample of good candidate's responses. The candidate was able to give brief explanation on the term cell and correctly state the meaning of letter **D** and number **5.** All required formulae in part(c) have been written correctly by the candidate.

## 3.0 CONCLUSION

The analysis of the candidates' performance shows that there are six questions which were well performed and the same number of questions had average performance and there is no questions had poor performance.

In comparison to the 2022 Form two examinations results, the candidates' performance in 2023 has been improved. The improvement in candidates' performance may be due to the good coverage in majority of topics in the syllabus for form 1 and form 2. The other reason for the improvement in the performance of candidates is the increased number of ICT teachers especial in some of the government and private schools. Availability of computer laboratories in some schools especially the privately owned schools is another reason for the improved overall performance in 2023.

It is expected that the recommendations given in this report will enable school head teachers (particularly majority of the government schools), school managers, teachers and other education stake holders to take immediate and appropriate measures to improve the performance of candidates in Information and computer studies subject for the next coming years.

## 4.0 RECOMMENDATIONS

Based on data analysis conducted on examination results, conclusion made for the performance in Information and computer studies examination for the 2023, the following are the recommendations;

- i. The number qualified ICT teachers especially in government schools should be increased.
- ii. The computer laboratories should be well equipped to enable the students to be familiar with computer practical activities.
- iii. Teachers should guide the students on frequent revision of all form one and form two topics in the syllabus
- iv. Teachers should spare time to enable students to learn basic concepts involved in the subject.
- v. The head teachers and school managers have to make sure that the syllabus for form 1 and form 2 is covered with in a specific period of the year.

# **APPENDICES**

# **APPENDIX 1**

# SUMMARY OF CANDIDATES' PERFORMANCE PER QUESTION AND TOPIC WISE IN INFORMATION AND COMPUTER STUDIES SUBJECT 2023

S/N:	ТОРІС	QUESTION NUMBER	PERCENTAGES OF CANDIDATES PER QUESTION	REMARK
1	Computer, computer network, Word-processing spreadsheet	1	89.89	GOOD
2	Computer evolution	10	82.54	GOOD
3	Computer networks and communication	9	74.34	GOOD
4	Computer networks and Communicationssification	5	72.14	GOOD
5	The internet	6	70.61	GOOD
6	Computer software and Computer handling	8	67.51	GOOD
7	Computer software	2	64.16	AVERAGE
8	The computer	12	60.90	AVERAGE
9	Computer handling.	4	46.01	AVERAGE
10	Spreadsheet	11	38.78	AVERAGE
11	Word Processing.	7	38.75	AVERAGE
12	Computer software	3	34.91	AVERAGE

# **APPENDIX II**

# SUMMARY OF CANDIDATES' PERFORMANCE PER QUESTION AND TOPIC WISE IN INFORMATION AND COMPUTER STUDIES SUBJECT 2022

S/N:	ТОРІС	QUESTION NUMBER	PERCENTAGES OF CANDIDATES PER QUESTION	REMARK
1	Internet	5	76.85	GOOD
2	Computer networks and communication	11	76.00	GOOD
3	Concept of information, the computer, Spredsheet, the internet, word processing, computer handling	1	61.88	AVERAGE
4	The Computer	8	60.59	AVERAGE
5	Computer networks and Communicationssification	2	57.84	AVERAGE
6	The internet	9	52.62	AVERAGE
7	Word Processing.	6	49.79	AVERAGE
8	Computer software and Computer handling	3	48.13	AVERAGE
9	Computer networks and communication	10	44.93	AVERAGE
10	Computer evolution	7	23.40	POOR
11	Spreadsheet	4	22.83	POOR
12	The computer	12	19.59	POOR