

### CANDIDATES' ITEM RESPONSE ANALYSIS REPORT ON THE ADVANCED CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (ACSEE), 2021

**GEOGRAPHY** 



# THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY



#### NATIONAL EXAMINATIONS COUNCIL OF TANZANIA

### CANDIDATES' ITEM RESPONSE ANALYSIS (CIRA) REPORT ON THE ADVANCED CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (ACSEE) 2021

113 GEOGRAPHY

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#### **FOREWORD**

The report on the Candidates Item Response Analysis (CIRA) for the 2021 Advanced Certificate of Secondary Education Examination (ACSEE) for Geography subject has been prepared by the National Examinations Council of Tanzania (NECTA). The aim of this report is to provide feedback to different education stakeholders including: students, teachers, parents, education administrators, school managers, policy makers and the general public on the performance of candidates in Geography subject. It also aims to show the extent to which the instructional goals and objectives were met. The National Examinations Council of Tanzania believes that, this report shall serve as a basis for enabling all educational stakeholders to identify proper measures to take in order to improve candidates' performance in future examinations administered by the Council.

The analysis shows that the general performance of the candidates in this subject was good (85.3%). The good performance was observed in 12 out of the 13 topics examined. The candidates had good performance in the topics of Timber Industry, Sustainable Mining, Manufacturing Industries, Study of Soil, Environmental Friendly Tourism, Livestock Keeping, Population and Development, Application of Statistics in Geography, Space Dynamics, Water Masses, The Dynamic Earth and Consequences and Topographic Map Interpretation. However, the candidates had average performance in the topic of Photograph Interpretation.

Factors that may have contributed to the candidates' higher performance in this examination include; the ability to understand the demands of the questions, having basic knowledge of the subject matter, possessing skills in computing, good mastery of the English language and essay writing skills. The candidates who scored lower marks depicted contrary attributes. In this report, the analysis of each question has been done and different categories of information have been shown by figures and graphs.

The National Examinations Council of Tanzania is grateful to all Examination Officers and other stakeholders who provided valuable assistance during the preparation of this report.

Dr. Charles E. Msonde

**EXECUTIVE SECRETARY** 

#### 1.0 INTRODUCTION

This report intends to evaluate the performance of candidates in Geography subject on the Advanced Certificate of Secondary Education Examination (ACSEE) 2021. The Geography examination consisted of two papers (Paper One and Two).

Paper one consisted of two sections; A and B with a total of seven (7) questions. The candidates were required to attempt five questions. Section A had three questions from the following topics; *Topographic Map Interpretation*, *Application of Statistics in Geography* and *Photograph Interpretation*. Candidates were required to choose two questions. Question number 1 was compulsory. Section B had four questions set from the topics of *the Dynamic Earth and Consequences*, *Water Masses*, *Space Dynamics* and *Study of Soils*. The candidates were required to attempt anythree questions from this section.

Paper two had a total of seven (7) questions which were set from the following topics; *Population and Development* and *Regional Focal Studies:* (*Livestock Keeping, Timber Industry, Environmental Friendly Tourisms, Sustainable Mining* and *Manufacturing Industries*). The candidates were required to attempt a total of five questions, whereby question number 1 was compulsory.

This report provides an analysis on the performance of the candidates in each question by showing what the candidates were required to do as well as the strengths and weaknesses of their responses. Samples of the candidates' answers have been shown to illustrate their responses. In the analysis, the performance in each topic is ranked as weak, average and good if the percentage of candidates' scores lies in the range of 0 to 34, 35 to 59 and 60 to 100 respectively. The candidates' performance has been summarised in the appendix whereby green colour represents good performance while, yellow and red colours imply average and weak performances respectively.

A total of 42,861 candidates sat for the ACSEE 2021 Geography subject out of which 42,618 (99.92%) candidates passed while, 53 (0.08%) candidates failed. Generally, the performance of the candidates in 2021 increased by 0.2 percent compared to that of 2020 in which 99.72 percent of candidates passed while, 0.28 percent failed.

It is expected that the report will be useful to all educational stakeholders. it will also enable teachers and students to improve the teaching and learning process in the Geography subject.

# 2.0 ANALYSIS OF THE CANDIDATES' PERFORMANCE IN EACH QUESTION

The Advanced Certificate of Secondary Education Examination (ACSEE) in Geography subject is designed to test candidates' ability to grasp and apply knowledge in various situations. It also tests the ability to reason, demonstrate, analyse and interpret various Geographical phenomena such as; maps, statistics, photographs, physical features, water, climate, soils, population and regional focal studies.

#### 2.1 113/1 GEOGRAPHY PAPER ONE

Section A: Topographic Map Interpretation, Application of Statistics in Geography and Photograph Interpretation.

#### 2.1.1 Question 1: Topographic Map Interpretation

Candidates were required to study carefully the map extract of Mwanza sheet (33/2) provided, and then answer the questions that followed. The question consisted of six parts; (a), (b), (c), (d), (e) and (f). The candidates were required to; (a) Find the position of a Chimney if a candidate at Nganza Hill grid reference 896147 saw a chain of smoke from the Chimney at bearing 45° and a teacher at Nyabulogoya Hill grid reference 917148 saw the same smoke at bearing 315°; (b) Describe the site and layout of Mwanza town; (c) Show the bearing of Saa Nane Island Game Reserve at grid reference 876191 from Maliza Hill grid reference 958101; (d) By using two evidences from the map, identify the type of climate of the area; (e) State the importance of R.F. scale given on the map and (f), Explain four functions of Mwanza town by giving evidences from the map. Total marks allocated for this question were 25.

This question was compulsory, and therefore it was attempted by all 42,858 (100%) candidates whereby 5,805 (13.5%) scored from 15 to 25 marks, 28,107 (65.6%) scored from 9 to 14.5 marks and 8,946 (20.9%) scored from 0 to 8.5 marks. The general performance for this question was good since 79.1 percent of the candidates scored 9 marks and above. Figure 1 illustrates the candidates' performance for this question.

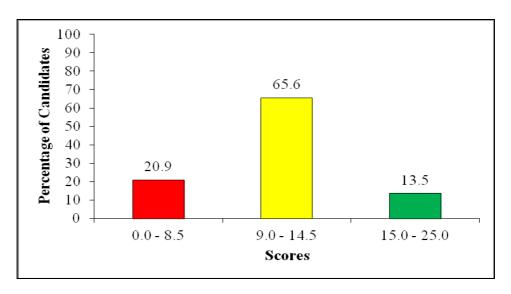


Figure 1: Candidates' Performance in Question 1

The analysis showed that, the 5,805 (13.5%) candidates who scored from 15 to 25 marks were aware of Topographic Map Interpretation. This was particularly on determining the position on the map, calculating bearing of object/feature, identifying the climate of an area, stating the importance of scale and functions of towns.

In part (a), the majority of candidates managed to identify the position of the Chimney in grid reference as 907158. In part (b), most of the candidates were able to describe the site and layout of Mwanza town. They managed to identify characteristic features on the mapped area and to interpret natural and artificial features on the map. Most of the candidates were able to describe site as the location of Mwanza town which is at the shore of Lake Victoria beside Kirumba bay. They were also able to describe the layout of Mwanza town as; settlements are concentrated beside Kirumba bay while other settlements are located along all weather roads and scattered settlements are found around Nyasaka (925228) Buganga Hills and Mkuyuru. Some of the candidates were able to explain natural and artificial features found on the map.

In part (c), the candidates were able to locate the position of Saa Nane Island Game Reserve in bearings from Maliza Hill grid reference 958101 as  $315^{0}$ . In part (d), some of the candidates were able to identify the type of climate of the area as *Modified Equatorial Climate* with the following evidences: *Latitudinal position as the area is located along the belt of* 

Equatorial region that is  $2^0$  35` South of the equator and the nature of vegetation is characterised with scrubs, papyrus trees, swamps and scattered cultivation which depicts Modified Equatorial Climate.

In part (e), most of candidates described R.F scale and then pointed out the importance of R.F scale given on the map as: is used in calculating areas of different figures on the map, calculating distance, reduction or enlargement of the maps, calculating gradient and vertical exaggeration and determining content of the mapped area.

In part (f), they explained the functions of Mwanza town with evidence from the map such as; supply of social services due to the presence of health centres; dispensaries and hospitals; institutes and schools which are located almost all over the mapped area, trading activities due to the presence of market centre at grid reference 903172; administrative offices located at Mwanza town sub urban such as Mwanza Municipality. Transport and communication activities which are conducted through water via Lake Victoria as evidenced by Kamanga Ferry. There is also rail transport via Tanzania Central Railway. Moreover, there is road transport evidenced by all weathered road bound surface covering almost all over the map; fishing activities due to the presence of lake Victoria, industrial activities due to the presence of industrial area around grid reference 955194, tourism activities due to the presence of Saa Nane Island Game Reserve, Kirumba bay and beaches along the Lake and agricultural activities due to the presence of scattered cultivation around grid reference 945177.

However, their scores varied from 15 to 25, depending on the strengths and accurateness of their responses as some of candidates were not able to get all the items correctly. Extract 1.1 is an example of a good response.

O1 O T. In the share so I and
01 @ the position of the chimney is at gried
regarance 909 158:
6) the dite of Muaran town is influenced by
the following pactors:
Reserve of Lake Victoria the preserve
of the water body has influenced The location
of the water body how uphunoud the location of Missansa town as its used as a rource of
unter, means of navigation and or silving
and tourism purposes.
Preserve a orial services such as health
centers and churches and morganise that are
landed arrived the married was and it aid
located around the mapped area and of grid
availability of oxial revivous.
Presence of security and skelble
political factor or cordition. This is evidences
by the presence of solice strains and
by the presence of police stations and policies and that offing is done in areas
with security.
Pacence or and transmit duckers
has also induse and obox of Mixon toxo.
Presence of good transport system  has also influenced oring of Musiness town.  Forwards presence of roads from Musiness
town to Bulgary at coultier much of the
toon to Buhangua at continen parts of the map as well as marine transport in to lake
Violotia

01 D The layout of Mwanes town involves the	.).
following patterns:	
Nuclear settlement layout that a	
found coportally arrived grid 890:2201 influenced	
by mesero of soval periode, the mesero of	
markets as well as roads and ports or harbours	
markets as well as water and part or provided	
Linear settlement layout that is found	_
along the roads and the open of bake Victoria,	
as evidenced at the central past of the	
map.	
Scattered settlement layout is also	
found at the South exciten part around	
Scattered settlement layout is also found at the south exection part around.  Mike hills and also orband Bulako hill.	
Dearing of Sac None Island Game, reserve	
from Malisa Hill is 315°	
The reason (100 to 500)	
A TI al l . III	
d) The dimate of the mapped area is	7
Equatorial dimate, but as modyred equatorial	<i>y ' E'</i>
dinate. This is evidenced by:	
The httpse of the mapped age at	
2° 35' (8 g) the equator that indicates 1	<del> , ,</del>
equipoda dimater	
the presence of take district parmonent	_
and temporary closers as well as securonal wamps	
also inducate moderate to high rainfall these	
Throwing a modyed equotional chimate:	
South of the state	
	_

01.	e) the R.F male given on the map
	that he 1: 50000 has the jollowing
	importance:
	thelps to determine the actual
	distance on the ground from the map
	and man distance visen. Olde that the
	ceale makes of easter to know what
	distance on the map is representing what
	diothra on the ground!
	the man maker to know.
	destrict on the ground!  It helps the map maker to know!  how much date and destructed importantion a
	to be shown on the map.
	the representation reducing or enterging
	the section of the state of the collistic
	and an order of a many of the
	or enlargment amount of the map,
	given point or part poin the map did to determine the actual near on the place on
	dotermine the actual near of the place on
	the ground,
_	1
	f) To planta are the fundance of
	Moaner town,
	Trading center, this is evidenced
	by presence of trading activities due to
	are seem a numerous reads and north
	presence of removes roads and ports,
	tradica cotivities, but also preserve & Railway.
	Social convices center, the is
	trading activities. But also presure of Railway.  Social services center, this is  indicated by presure of advisty lospital  health center dividus, mosque and  dispensaries example normal good 895215.
	hoalth centra dividus mosques and
	No. 2 2 2 200 895215.

Extract 1.1: A sample of a correct response to question 1

On the other hand, 28,107 (65.6%) candidates who scored from 9 to 14.5 marks were able to answer few parts of the question correctly. Some mixed

correct and incorrect answers while, others did not attempt some parts of the question. For example, one candidate provided incorrect type of climate as; *Tropical climate* with the evidences of equatorial climate such as; *the area receives heavy rainfall* and *the area lies within latitude*  $0^{0}$  *to*  $20^{0}$  *North and South of the Equator*. In part (e), one candidate wrote the importance of vertical photograph instead of R.F scale as follows: *it is used in map making* and *it is used for plotting contours*. Those incorrect answers depicted inadequate knowledge those candidates had on topographical map interpretation.

Further data analysis showed that, 8,946 (20.9%) candidates who scored from 0 to 8.5 marks had inadequate knowledge of the subject matter as only few candidates were able to identify position of Chimney in part (a). For example, one candidate wrote *the backward bearing*  $135^{0}$  instead of *bearing*  $315^{0}$ .

In part (b), some candidates failed to identify the site and description of the layout of Mwanza town. For example, some candidates identified the site of Mwanza town by using direction as *North East*, *Northern part of the map* while, others named drainage pattern as site of Mwanza town. For example, one candidate wrote the site of Mwanza town that *it is located at the Northern hemisphere*. They mentioned activities taking place in the area such as; *fishing activities, transportation* and *social services* as its layout.

In part (c), most of the candidates failed to determine the bearing of Saa Nane Island Game Reserve. One candidate for example wrote  $416^{\circ}$ . This indicates that, the candidates in this category lacked knowledge and skills of reading grid references and bearings. In part (d), many candidates failed to identify the correct type of climate with evidences, as most of them mentioned other types of the climates like Semi - desert climate and Tropical or Equatorial climates with incorrect reasons to support their responses. These candidates did not consider the most important guideline in interpreting the type of climate, that is latitude  $2^{\circ}$  35' which is within the belt of equatorial region.

In part (e), some candidates mixed correct and incorrect importance of R.F scale while, others did not answer this part of the question. In part (f), some candidates wrote factors which influence the growth of town such as; availability of schools, availability of infrastructures, availability of water

bodies and availability of medical centres. Others did not attempt this part of the question. Extract 1.2 represents such a weak response from one of the candidates who answered this question.

10 The paintion of a chimney which are sown by a student of Ngaza Hill grid reference 696147 and a toacher from Nyahulogoya Lill grid reference 917148 in boaring of	$\neg$
at Nanza Hill and migroups F96147 and a toucher time	$\neg$
Wychilogova fill and represent 917 148 in boaring of	
45° and 216° rais chair or moke to as which	
45° and 315° saw chain of moke in ga which are tound in good respectores 908158	$\neg$
tag (stat in Justice state)	
1. J. Locial services dus to the presence of schools	
man by	
ii). Transport systems which are good evidenced by the presence of Kamanga Ferry, Railway rains.	
the presence of Kamanga Ferry, Kailway rains.	
ii) Bliet which is gentle or flat areas where all activities are ordusted.	$\dashv$
all activities are conducted.	
ir) Climate; this incluences site due to the fact that people projects the area with good climate like Moderate temperature and rainfall.  v). Economic activities attracts people from different area to establish settlement in Mwanza towns.	
that people projers, the area with good climate	_
liko Moderato temperature and rainzall.	
v). Economic activities attracts people from different	_
arga to establish sattlements in Minanea towns.	
v). Natural resource: Also affronts people like presence	
v). Natural resource: Also attracts ecople like presence of lake Victoria are site factor for people in	
Mwarza town.	
(c) The bearing of Lag Nano Laland trame Resons at good	
regarance 876191 from Maliza Hill grid regarance 958101	
(c) The bearing of Sag Nano Julanch trame Resons at grid resonance 876191 from Maliza Hill grid resonance 958101 is 316°.	
(d) The type of the climate D Tropical climate.	
Dograph	
+ Dup to the presence of latitudes 2° 35'	_
+ Due to the presence of latitudes 2°35'  + Due to land forms, drainage of the mapped area and vegetation suggest the tropical climate example of vegetation are Serubs:	
vegetation suggest the tropical climate example of	
regetation are Serubs:	
ħ	

Extract 1.2: A sample of an incorrect response to question 1

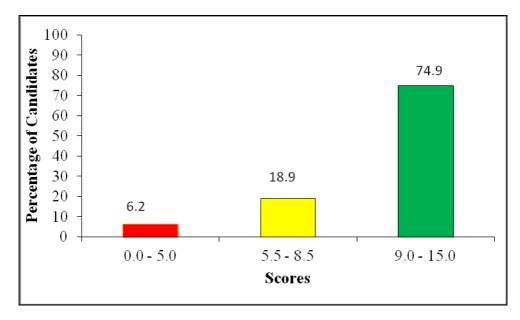
#### 2.1.2 Question 2: Application of Statistics in Geography

This question required the candidates to study carefully the following scores awarded to 40 candidates in Geography test at one of Secondary Schools in Tanzania and answer the questions that followed:

66, 87, 79, 74, 84, 72, 81, 78, 68, 74, 80, 71, 91, 62, 77, 66, 87, 72, 80, 77, 76, 83, 75, 71, 83, 67, 94, 64, 82, 78, 77, 67, 76, 82, 78, 88, 66, 79, 64 and 71.

This question had three parts (a), (b) and (c). The candidates were required to; in part (a), prepare a frequency distribution table with the lowest class interval of 60-64. In part (b), from the distribution table prepared in (a), calculate (i) Mean score, (ii) Median (iii) Mode and in part (c), describe the nature of statistical data in Geography. The total marks allocated for this question were 15.

The question was answered by 23.316 (54.4%) candidates. The general performance on this question was good since 21,867 (93.8%) candidates scored 5.5 marks and above. Data analysis on this question showed that 17,457 (74.9%) candidates scored from 9 to 15 marks, 4,410 (18.9%) scored from 5 to 8.5 marks and 1,449 (6.2%) scored from 0 to 5 marks. Figure 2 illustrates the performance on this question.



**Figure 2:** Candidates' Performance in Question 2

Further data analysis showed that, 17,457 (74.9%) candidates who scored from 9 to 15 marks understood the demands of the question. They revealed adequate knowledge and skills on the topic of application of statistics in Geography, especially on the concept of calculating statistical measures of central tendencies and interpretation of data.

In part (a), majority of the candidates managed to prepare frequency distribution table with the lowest class interval of 60 - 64. In part (b), most of the candidates were able to compute statistical measures of central tendencies by using correct formula as follows:

(i) Mean score
$$Mean (\ddot{x}) = \underline{fx}$$

$$f$$

$$= \underline{3040}$$

$$40$$

$$= 76$$
Therefore, mean score = 76

(ii) Median
$$Median = L + \frac{(n/2 - cfb)^{-1}}{fm}I$$

$$= 75 - \frac{0.5 (40/2 - 3 + 6 + 7)^{-5}}{11}$$

$$= \frac{74.5 (20 - 16)^{-5}}{11}$$

$$= 74.5 \frac{(4)^{5}}{11}$$

$$= 74.5 \frac{(20)}{11}$$

$$= 74.5 + 1.82$$
Therefore, the median = 76.32

(iii) Mode  
Mode = 
$$L + (t1)i$$
  
 $t1 + t2$   
=  $74.5 + (4)^{5}$   
 $t4 + 3$   
=  $74.5 + (4)^{5}$   
 $7$   
=  $74.5 + (20)$   
 $7$ 

11

#### = 74.5 + (2.85)Therefore, Mode = $77.35 \approx 77$

In part (c), some of the candidates were able to describe clearly the nature of statistical data in Geography as: discrete data, continuous data, individual data and grouped data. The candidates were competent in applying calculations in statistical measures of central tendencies hence they were able to score higher marks. The quality and clarity in their responses led to variations in their scores. Extract 2.1 shows a sample of correct responses from a candidate who performed well on this question.

2 a)	to FREG	MENT	CY D	OUTRI DU	TION	TABLE		
	class interval	×	f	4X				
	60-64	62	3	186				_
						ī		-
	65 - 69	67	6	402			 	-
	70 - 74	72	7	504				- - - - 
	75 - 79	77	11	847			 	
	80-24	72	Ş	656				
	85 - 89	37	3	261				
	90 - 94	92	2	184				
			40	3040			 	$\dashv$
							 	<u> </u>
26) i)	From M	less X	= 2	+x				Ť,
(1)				Σ#				
	where	Eff =	304	o and	Λ-	40		4
		<del>-</del>	0.	· · · · · · · · · · · · · · · · · · ·			 	$\dashv$
		X =	300	<del>7</del> 0	(FIFE		 	$\dashv$
				6	-			-
	2. The	mean	٦٥٥١	e ii	76			-
							 	1
26) 11	from Med	ian =	= L	+ /172	- Nb	) c		
,			18.60		nw	1	 	_

2b) ii) Now L=(N)th value.	
= (40)th = 20th value.	
From the table L = 74.5	
C = 5 N=40 N= 16 N=11	
14.17 - 7.765 1 /(2 1/)	
Median = 143 7 76 = 16 5.	
Median = $74.5 + \left(\frac{40}{2} - 16\right) 5$ $= 76.32$	
. The median is 76.32.	
26)iii) From Mode = L + (t) c.	
(6 +tL)	
1 746 1 - 6 + - 0 (25	
L=74.5 61=4 t2=3 C25.	
14 10 = 74.5 + 4 5	
$M_{ode} = 74.5 + 4 5$	
= 77.36.	
:. The Made it 77.36.	
2 c) Nature of statistical data can be as follows;	
2 c) Nature of Statistical data can be as follows; O. Discrete data - This is the data which	
di since du la	
occurs is whole numbers only. It as not	
be expressed in decimals for example, the	

2 c) Nature of Statistical data can be as follows;	
2 c) Nature of Statistical dots can be as follows:  (a) Discrete data - This is the data which	
occurs in whole number only. It can not	
be expressed in decimals for example, the	
number of people is 65.	
(i) trouped data - This is the data which is represented in a range for example from 64-69.	
represented in a range for example from	
64-69.	
(iii) Confinous data - Puls type of data is the	
one with no end, for example the number of	
people from the age of 20 and above.	
(i) Individual data - this type of data ours	
in whole numbers but for a single item.	
For example the scores in a geography test	
are 66, 87, 79, 74, 59, and 94	

Extract 2.1: A sample of a correct response to question 2

On the other hand, 4,410 (18.9%) candidates who scored from 5 to 8.5 marks revealed an inadequate knowledge and skills on the application of statistics in Geography topic, especially on the concept of calculating statistical measures of central tendency and nature of statistical data.

In part (a), some of the candidates managed to prepare a frequency distribution table with the lowest class interval of 60-64 while, others failed to prepare it. Other candidates failed to prepare frequency distribution table, but managed to write down the correct formula. For example, one candidate tabulated a frequency distribution correctly, yet failed to calculate mean score, median and mode.

In part (c), some candidates mixed correct and incorrect answers about the nature of statistical data in Geography, while others did not attempt this part of the question. The variation of their scores was attributed to the way they responded to the question.

Moreover, 1,449 (6.2%) candidates who scored from 0 to 5 marks lacked knowledge and skills on the topic on Application of Statistics in Geography, especially on calculating measures of central tendency and nature of statistical data. Those candidates failed to put into practice the knowledge of application of statistics in Geography. Some candidates for example, in part (a), were able to write the lowest class interval of 60 - 64 only without tabulating while, others were not able. One candidate for example, wrote the correct class interval as: 60 - 64, 65 - 69, 70 - 74, 75 - 79, 80 - 84, 85 - 89, 90 - 94, but did not do any calculations.

In part (b), some candidates were able to write the correct formula but, failed to calculate (i) Mean score (ii) Median and (iii) Mode while, others failed to compute any statistical measures. One candidate for instance provided the correct formula of only two statistical measures but, failed to compute their values such as;

Mean 
$$(x^{-}) = \frac{\sum fx}{\sum f}$$

$$Mode = L + (\frac{t1}{t1 + t2})i$$

In part (c), some of the candidates did not understand the requirements of the question, as they mentioned types of data instead of nature of data. One candidate for example, wrote *Primary data* and *Secondary data* while, another candidate wrote *Qualitative* and *Quantitative data*. Some of the candidates gave two types of sources of Geographical data. One candidate for example, wrote *Primary source of data* and *Secondary source of data*. On the other hand, some candidates provided inadequate responses on the the nature of statistical data in Geography and others mixed correct and incorrect responses. Examples of incorrect responses were: *Descriptive data* and *Categorical data*. Extract 2.2 shows a sample of incorrect response on this question.

2(b) ii) Median	
Mecian = L1+ (4,-10)	
((f,-fo)+ff,-f,))	
$\begin{array}{c} 1 = -75.5, f_1 = 11 & f_0 = 7 & f_2 = 8 \\ = 75.5 + 6 & (H-7) \end{array}$	
=75.5+((H-1))	
((3-11)+(F-11))	
=75-5+ (4)	
(4+3)	
=75.5+(4)	
= 15.5 + 0.57 Median = 76.07	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
26/11/ Mode = L1 +/ 1/2 - F C.	
2	
mode= 75.5+(4%-8)5	
$E_1 = 75.5 + (20-8)_5$	
= 75.5 + (12)5	
75.5 \ 2.5 \ 2.5 \ 2.5	
Mode = 75.5 + 8.5 Mode = 84	
2 (a) The nature of Habitical data	
1) Simple graph  is Comporative graph	
is Comparative graph	
1117 Sivergence graph 177 Compound graph NY Rue Chart	
10/ Compound graph	
m's Proportional Comi Cricle	
will inhoustlose seril dage	

Extract 2.2: A sample of an incorrect response to question 2

In extract 2.2, the candidate mixed up the formula for Median and Mode in part (b). The candidate also used median formula to calculate mode and used the formula for calculating mode to calculate median. In part (c) the candidate had misconceptions as he/she mentioned ways used to present data instead of the nature of statistical data in Geography.

#### 2.1.3 Question 3: Photograph Interpretation

The candidates were required to carefully study the photograph given and then answer the questions which followed. The question had six parts; (a), (b), (c), (d), (e) and (f). The candidates were required to: (a) Name the types of photograph, (b) Give four advantages of the type of the photograph named in (a), (c) With evidence, state the time when the photograph was taken, (d) Name the physical features seen on the photograph, (e) State two possible causes of the physical features named in (d) and (f) Describe the physical process taking place in the area. The total marks allocated for this question were 15.





The question was answered by 19,536 (45.6%) candidates. The analysis showed that the general performance was average since 10,857 (55.6%) candidates who attempted it scored 5.5 marks and above. Further data analysis showed that, 3,122 (16%) candidates scored from 9 to 15 marks,

7,735 (39.6%) scored from 5.5 to 8.5 marks and 8,679 (44.4%) scored from 0 to 5 marks as illustrated in figure 3.

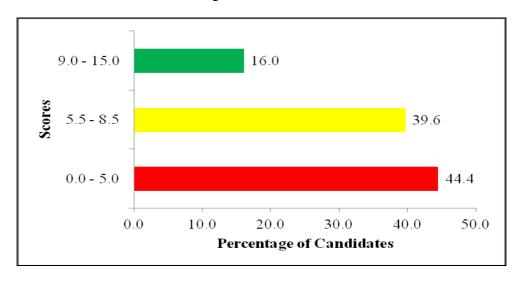


Figure 3: Candidates' Performance in Question 3

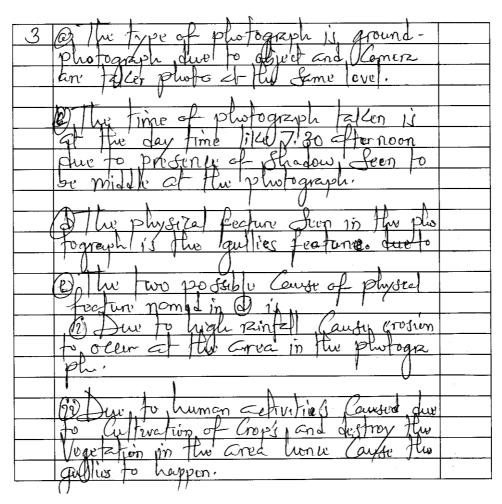
Further data analysis showed that, the 3,122 (16%) candidates who scored from 9 to 15 marks were knowledgeable on the topic on the Photograph Interpretation topic. This is because managed to answer the question correctly despite the fact that there were variations of marks which was due to the strengths and weaknesses of their responses.

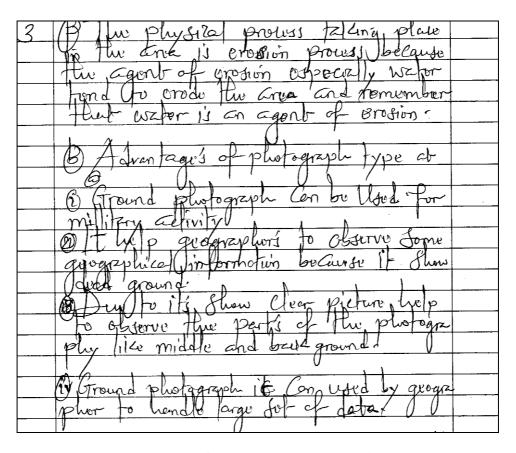
In part (a), the candidates were able to identify the type of photograph as Ground level photograph. In part (b), they gave advantages of the type of photograph named in (a) such as; It provides instant record of the landscape at a given time, it helps to keep records of different features for different purposes, a familiar picture is presented in a contrast to unfamiliar views, the print of ground photograph can replace a great deal of verbal description and the grounds photograph taken can be used as an aid to field sketching mapping.

In part (c), most of the candidates managed to identify the time when the photograph was taken as *noon time due to the fact that the tree shadow at the foreground appears to be around the tree, it is a sunny noon.* In part (d), most of the candidates were able to identify the physical feature seen in the photograph as *Gullies*.

In part (e), the candidates stated possible causes of physical features named in (d) including: water erosion especially, when rill erosion becomes more developed, human activities as it often begins with the removal of natural vegetation be it forest or grasses as a result of overgrazing or poor farming methods and can either be a result of combination of landslide, down warping with association of rainfall/running water.

In part (f), the candidates were able to describe the physical process taking place in the area as *gully erosion occurs when heavy rainfall rushes down* steep slope cutting deep grooves into the land. The grooves became deepens and widened to form gullies which eventually cut up the land to give badlands. Extract 3.1 shows the good response for question 3.





Extract 3.1: A sample of a correct response to question 3

Furthermore, the 7,735 (39.6%) candidates who scored from 5.5 to 8.5 marks had an inadequate knowledge and skills on the topic on Photograph Interpretation. Some of those candidates answered correctly some parts of the question while, others mixed correct and incorrect answers. Some of the incorrect answers in part (a) were *low oblique* and *high oblique* photographs instead of *ground level photograph* and in part (f) were *weathering* and *volcanic activities* instead of *erosion process*.

Moreover, the 8,679 (44.4%) candidates who scored from 0.5 to 5 marks showed lack of knowledge and skills on the topic on Photograph Interpretation. This led to the candidates to provide incorrect answers in many parts of the question. Some of the candidates identified the correct type of photograph as *Ground level photograph* in part (a), while, others wrote other types of photographs such as *Low Oblique photograph* and *High Oblique photograph*. This indicates that, these candidates were not aware of the characteristics of each type of photograph.

In part (b), most of the candidates were not able to give four advantages of the type of photograph named in (a). For example, one candidate had a confusion between map and photograph as he/she wrote advantages of a map such as; it is used to show distribution of settlement, population and human activities, instead of the advantages of ground level photographs which are; It provides instant record of the landscape at a given time, it helps to keep records of different features for different purposes, a familiar picture is presented in a contrast to unfamiliar views, the print of ground photograph can replace a great deal of verbal description and the grounds photograph taken can be used as an aid to field sketching mapping.

In part (c), most of the candidates were not able to identify the time when the photograph was taken with evidences. For example, one candidate stated that the photograph was taken in the morning due to the presence of shadow in the Western side while, another candidate wrote that it was evening due to the absence of shadow.

In part (d), some candidates failed to name the physical features seen in the photograph. Instead they mentioned features which are formed as results of Earth's movement. For example, one candidate wrote *Escarpment* while another candidate named *Rift valleys*. On the other hand, some candidates mentioned features which are formed as a result of wind movement in desert area such as; *Rock Pedestals* and *Zeugens*, instead of *Gullies*.

In part (e), some of the candidates stated only one possible cause of the physical features named in part (d) and others provided incorrect answers. For example, one candidate wrote forces which lead to the formation of various landforms such as; *folding* and *faulting* instead of *water erosion* and *human activities*. In part (f), most of the candidates failed to mention the physical process taking place in the area. They listed agents of erosion such as; *running water, ice, wave* and *wind* instead of *gully erosion*. Extract 3.2 is an example of the incorrect responses.

uot	viny
3 a) The type of photograph is Vertical	
Aerial phatograph. This evidenced by	
The following factors:	
- It show only the top wiew of the	
, objects	
- The scale decreaser from fore to back.	
- Also features shown are small in size.	
This evidence that the photograph is vericed	
Ferral photograph.	
b) if & Vernical aenial phetograph is used by	
Categraphen in map making.	
iz) It is used in showing relief teasures	
on the earn's furface like hills.	
ind It is assential for geographical studies	
like Climate and relief defermination	
The type of photograph Shows the	
features of various Object which are	
found on remote sensing.	
C). The photograph was taken af Evening.	
This due to the four that the shaddow	
110 on East, This evidence that the	
photograph was taken at evening.	
photograph is Hills a Clintona Rills	
Motograph is Hills a Clinisian Kills	
and Grooves.	
e) i) Soit erosion, which evolutions part of two land ii) presence of hard and impermiable rock	
11) presence of hard and impermiable rock	
on the lawth's surface:	

Extract 3.2: A sample of an incorrect answer to question 3.

In extract 3.2 the candidate wrote vertical aerial photograph as a type of the photograph in part (a), instead of ground photograph. In part (b), the candidate also wrote advantages of vertical aerial photograph instead of the advantages of ground photograph which are; It provides instant record of the landscape at a given time, it helps to keep records of different features for different purposes, a familiar picture is presented in a contrast to unfamiliar views, the print of ground photograph can replace a great deal of verbal description and the grounds photograph taken can be used as an aid to field sketching mapping. In part (c), the candidate wrote that the photograph was taken at evening, instead of noon time due to the fact that the tree shadow at the foreground appears to be around the tree, it is a sunny noon. Finally in part (e), the candidate wrote soil erosion, instead of either water erosion, landslide or down warping.

# Section B: The Dynamic Earth and Consequence, Water Masses, Space Dynamics and Study of Soils.

#### 2.1.4 Question 4: The Dynamic Earth and Consequences

The candidates were given the statement that "In a Form Five classroom, a Geography teacher stated that, "Sedimentary rocks are said to be both industrial raw materials and sources of energy". Then they were required to support the teacher's statement with eight points. The total marks allocated for this question were 20.

This question was answered by 25,503 (59.5%) candidates. The general performance was good since 20,723 (81.3%) candidates who attempted it scored 7 marks and above. Data analysis showed that 10,367 (40.7%) scored from 12 to 20 marks, 10,356 (40.6%) scored from 7 to 11.5 marks and 4,780 (18.7%) scored from 0 to 6.5 marks. Figure 4 illustrates the performance for this question.

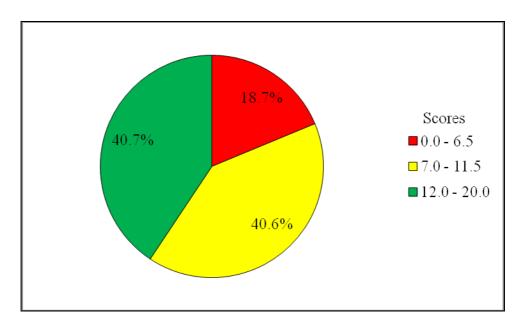


Figure 4: Candidates' Performance in Question 4

Further data analysis showed that, 10,367 (40.7%) candidates who scored from 12 to 20 marks had knowledge of the structure of the Earth, particularly on the materials of the Earth and their characteristics. They were able to describe sedimentary rocks according to their mode of formation such as; Sedimentary rocks are formed from the deposition of sediments by wind, water or ice. After deposition, the sediments are lithified to form layers known as strata. Some of the candidates managed to classify sedimentary rocks into three groups; organically formed sedimentary rocks, mechanically formed sedimentary rocks and chemically formed sedimentary rocks.

Most of the candidates explained the importance of sedimentary rocks as industrial raw materials and as sources of energy as follows; Chalks and limestone are used in manufacturing of cement in the cement industries. They are also used in brick manufacturing industries. Examples are sand stone and siltstone which are mechanically formed. Also Sedimentary rocks like rock salt, potash are used in the manufacturing of salt both for human and other uses. Also, they are used in the manufacturing of chemicals like the agrochemical and fertilizers respectively. Sedimentary rocks like Silica are used in the manufacturing of glasses. Some other sedimentary rocks like potash and salt rock are important raw materials in soap manufacturing industries. Some organically formed rocks like coral reef

are used in the manufacturing of decorations. Gypsum is crushed to make plaster of Parish (Pop) and ceiling boards and some rocks contain salts such as Nitrates and Phosphates which are used on making industrial fertilizers.

The candidates also managed to describe the importance of sedimentary rocks as a source of energy in the following ways: Organically formed rocks like coal are used as fuel in both homes and industries. Oil (Petroleum) occurs in sedimentary rocks which when extracted and refined is used to run machines. Moreover, natural gas occurs in sedimentary rocks and it is used as fuel in homes and factories. The variations of their marks were due to the difference in the strengths and accurateness of their responses. Extract 4.1 is a sample of good responses on this question.

4. Sadimontary Parks report to the type of the rocks	
4 Sedimentary Rocki refers to the type of the rocks which are formed when weathered materials are accumulated, Comercial and Comparted typether, this kind of rocks	
which are formed when weathered materials are accumu-	
lated, Cemented and Comparted together, this kind of racks	
they can Undergo metamorphism to form another kind of I	
rocke also they contain fossells, they are formed in trata also they do not contain crystalls. Codemontary rocks	
Arata also they do not Contain Crystalls Ledementary rocks	
are Categorisad into Various forms like mechanically	
formed Codimentary rocks Such as mudistanes, Organically	
formed Sodimentury rocks Such as coal and chemically	
formed Sedimentary rocks Luch as I'lt Codimentary rocks	
formed Sedimentary rocks Such as Litt. Sedimentary rocks are Said to be both industrial row materials and Sources	
pt 0001011.	
Ledimentary Kocks are Said to be Industrial	
Tedimentary Rocks are Said to be Industrial raw materials because one Used in the Industry to	
manufacture Various products, among of those products are	
ac tollows	
Solimentary rocks are Used in the Inducting to manufacturer coment; rocks like lamestones are used as	
manufacturer Coment; rocks like lamostones are used as	
raw-materials for making Industrial products like comports	
which are clear for building for example Come Industri-	
which are glood for building for example Come Industri- es are located at Tanga region where there are nearla-	
bility of limestone for easy manufacturing of coment for example Semba Cement.	
tor example Semba Cement.	
Cedimentary rocks are Used to produce Various chemicals which are Used for Various purposes rocks	
chemicals which are Used for Various purposes.rocks	
luke phosphate and potash are luad for making	
chemerals for Various purposes like paintrop.	
chemicals for Various purposes like painting.  Sodimentary rocks are Used in the Industry	
for manufacturing glace; Some kind of this rocks	
are used as raw materials for making glass for exa-	
mple Stra products which is produced can also be the	
for making, windows, doors, and domestic appliaces	

1.		
4.		
ļ	fortilizers. Some codimentary rocks like phosphate and	
	potash are also also in the Industry for making	
	fortilizors. Somo codimentary rocks like phosphate and potash are also ilsed in the Industry for making fortilizors like NPK which are ilsed to Increase	
	Nutrients in the Soil and promote the growth of Clops	
	So as to ensure production of high yield of Cropic	
	Salimontaria Rocks are Used for making 1	
	Bricks; Lome Kend of this rock like mudictone and	
	Sand stones are used in the Industry to manufacture	
	bricks which are fleet for Construction of Various	
	things like houses and bridges.	
	Xpart from Sodimentary rocks to be Industrial	
	traw materials they can also be the Source of energy bocause they Contribute in making jude Such as;	
	bocause they contribute in making juels such as!	
	Oil (Fatrolaum), Sodimentary rocks are Used	
	his et at the Course of oil because commentaring tokel	
	are weathered materials mostly facil materials which when are deposited beneath the earth Surface for	
	when are deposited beneath the earth Surface for	
	long period of time at leads to the formation of oil which	
	is thed for running machines in the Industry.	
	Natural Gas, codimentary rocks Contribute	
	to the formation of Natural gas because of decomposit	
-	trois of dead Organic matter which staying for long	
-	perial of time Under the earth Surface for example	
	Natural Gas Obtained at Altuara, Tanzanià, it is	
	Med for Narious purposes like cooking and even	
	turning Some machines	
	Coul, Codimentary rocks are the Course of the formation of the coal Under the ground because of the	:
-	docomposition of dead Organic matters (fossels) staying	
	for long period of time for example coals which are political	
41	at kniming in Moeira, they can also be used for cooking	
7	hosting and running some machines in the Industries.  To sum Up: Sadimentary rocks has many great	
	potentials which results to the development of Industries	
	and Country at large therefore those rocks are Suppose	
	to be Utilized effectively so as to bring about those	
	Dovelopment.	
	•	

Extract 4.1: A sample of a correct response to question 4

Furthermore, 10,356 (40.6%) candidates who scored from 7 to 11.5 marks had an inadequate knowledge and skills on the topic on the structure of the Earth particularly on general materials of the Earth. Some candidates managed to provide relevant introduction of sedimentary rocks, classified them according to their mode of formation, but gave out few importance of these rocks. In addition, some managed to give relevant introduction and importance of sedimentary rocks, while others provided relevant introduction but mixed up correct and incorrect explanations of some importance of sedimentary rocks. One candidate for example, managed to provide relevant introduction of sedimentary rocks, but mixed up correct and incorrect importance of sedimentary rocks as raw materials and sources of energy. Incorrect importances were: sedimentary rocks are source of tourist attraction and source of soil formation.

Moreover, 4,780 (18.7%) candidates who scored from 0 to 6.5 marks lack knowledge and skills on the types of rocks, rocks classification and their importance. Their weak responses indicated that they did not understand the demands of the question as some of them gave relevant introduction, but mixed up correct and incorrect answers.

Some of the candidates gave inadequate introduction of sedimentary rocks and few importances. In addition, some candidates failed to provide introduction and classification of rocks, but they mentioned only one importance of sedimentary rocks while, others provided the general importance of rocks instead of the importance of sedimentary rocks. For example, one candidate wrote rocks are: *source of tourists' attraction, source of soils formation, provides habitat for living organisms like plants and animals* and *source of national income*. Extract 4.2 is a sample of incorrect responses from one of the candidates who attempted this question.

64	Rock 14 a gggregate of soil points/particle. Sude	
-1	mentary rock are formed by sediment They undergo	
	Metermorphism to form metamorphic rocks. Gedementary	
	forke are not only Industrial raw materals and	
	Sources of energy but also as follows.	
	They store underground water. Also redementary	
	Pocks perform a duty of storing the underground	
	Which help dometic use and for animal dring. The	
	Store clean water which hospful to humanibeing so	
	the Godemontary Tocks they also store underground	
	kater.	
	humu. They have fall change to som mineral and humu. They have fall change for somming different	
	humus. They have falled change for forming different	
	MINERAL Which support the formation of sold and	
ļ	help in inimage numerat to the soil. They provide	
	Himus which Increase the presence of numerat in	
	the soft.	
	They on crystalling in Nature. Sedementary rocks	
	are also crystatine producing dysorens source of	
	energy which help in forming of landslides and land	
	shapes. The sudamentary rocks contain different so of	
	energy. Where the undergo metamorphuhm to form the	
	Mekmorphic cocks.	
	They are haded and non-trefted. Gedementary rock	
	In rature an weally hard brigains of forming by	
	Sedements. The Gidemin makes the Sedementary rocks	
	to be hard and nond streeted: 40 the sedementary	
	Rocks are hard and non thirtied because of formed	<b>-</b>
	by sodement	
	They undergo weathing to form igneous rocks. Also	
	the sodementary rock undergo the weathering process of distinguishin into small putable to as to cook and solveries and	·.
	allthroughin into small promite to alto cool and soldyles and	

64 to form the igneous rock. It cooks and soldfield on	
the earth surface to form the topology rock. so	
Sedementary rock undergoweathering to for Igenous:	
Rocks	
They also Undergo Metamorphum to form Metamorphic	
fack. Gedementary rocks also undergo motamorphism process	
to form the metamorphic rock. They radiment to heat to	
Undergo metamophum so as to be the Metamosphic	
L Pock.	
They produce forthly to the Goil. The sedementary	
Pocks product fartiles to the you which increase the	
nutre of a the soil it help to Increase the soil fertilities	
Godomenton rocks provide feetlety to the soil.	
The produce or source of Building materials, Sedem	
entary rock to a source of Building material such	
as stonce and small pubbles, so sedementary rocks	
Provide different bracterial kitish support in construction	
and Building dyleant Settlement.	
benerally sedementary locks have characteristics	
Which are fourt, hard, having crystalline and they	
distengerate to form sudement which may undergo.	
Motomorphism to form Motomorphic rock	

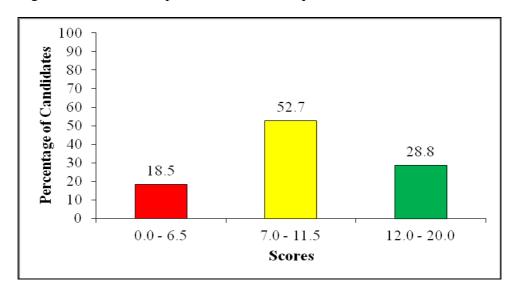
Extract 4.2: A sample of incorrect response to question 4

In extract 4.2, the candidate explained the general characteristics of rocks such as; they are crystalline in nature, they undergo metamorphism to form metamorphic rocks (characteristics of sedimentary rocks) and they are hard and non stratified (characteristics of igneous rocks) instead of explaining how sedimentary rocks are used as raw materials in the industries and also as sources of energy as per the question requirements.

#### 2.1.5 Question 5: Water Masses

The question required the candidates to justify the statement that; "Coastal landforms are significant to human lives", by giving six points. The total marks allocated for this question were 20.

This question was attempted by 28,905 (67.4%) candidates. The overall performance of this question was good since 23,557 (81.5%) candidates who attempted it scored 7 marks and above. Further data analysis showed that, 8,327 (28.8%) candidates scored from 12 to 20 marks, 15,230 (52.7%) scored from 7 to 11.5 marks and 5,348 (18.5%) scored from 0 to 6.5 marks. Figure 5 illustrates the performance on this question.



**Figure 5:** Candidates' Performance in Question 5

Further data analysis revealed that, 8,327 (28.8%) candidates who scored from 12 to 20 marks had adequate knowledge of the Water Masses topic especially the significance of coastal landforms. This is due to the fact that the question demanded high level of analytical and reasoning skills.

Some of the candidates managed to score higher marks because they were able to justify the significance of coastal landforms. One candidate for example, justified the significance of coastal landforms to human lives as follows: they are essential breeding sites for aquatic creatures; they provide sources of raw materials for various industries. They are a site for alluvial soil which is used for construction and centre for agriculture, the features act as natural protection against strong waves, leisure sites for tourists, they provide sites for human settlement and deep, well sheltered harbours have been developed from submerged coastlines. Strengths and weaknesses of their responses caused candidates to vary in their scores. Extract 5.1 represents a sample of good responses.

5. Coastal landforms are the type of	
5. Courtal landforms are the type of landforms formed along the wast of the	
oreans due to wave extrems. coastal	
landforms includer tombolo, Beaches, diffs	
and cotal reeps. Coastal landforms are mainly	
due to wave eroseon or wave deep deposition.	
Goatal Land Poms on be highlands and	
Coastal landforms can be highlands and Lowlands: The exactal landforms have the following importance to human lives;	
Pollowing importance to human lives.	
faultates construction of harbours and	
ports: most of harbours and ports are constructed	
along the coastal landform which a deep	
valley Due to the presence of food coast,	
easy construction of harbour and port is	
On auxo d	
Acte as townst attraction: some features along the coast tend to act on honoupot because of the beautiful sceneriothal scenerio that they offer Example a sand beach can	
along the coast tend to act or honoupot	
because of the he outiful scorer that conorie	
that they offer . Example a ford beach ma	
be a very good townst attraction centre.	
Provides recreation 2000 por human;	_
some landforms on the coastal area acts as	
recreation sono by swimming and playing	_
games. Example Beach are good example	
or cost landforms that is formed due to	
games. Example Reach are good example of coast landforms that is formed due to deposition of sand, shingles	
People remally recreate themselves by	
switch swimming or play beach socrer of villey.	
fishing tone and breeding i some	
landform in the organ coast act as fishing	
grounds and sometimes act as breading	
ground. Example in the Barner Peers and	
grounds and somptimes act as breading ground. Frample in the Barner Pages and  -s- atoll, they are considered to be fishing ground due to availability of fish food.	
ground due to availability of fish food,	
simplifying the plenting activity,	
along the Boach coast provide raw materials	
along the Beach coast provide raw majerials	
the rand along the Beach can be used for	
On clruation buchage and and language	
trains can be used as my materials in	_
region can be used as raw materials in	
Protection against dangerous wave	
actions! some feature along the coast tend	
To act as Bassier on as to prevent dangarous	
wave action from attacking the land Example the diffs tend to protect the Land from	
the diffs land to proteed the Land from	
the wave action.	_
Renerally; the wortal land forms are not state ance they keep on changing due	
to continuous action of wave along the	
coast leading to formation and modification	_
of the coastal land forms.	
· ·	

Extract 5.1: A sample of a correct response to question 5

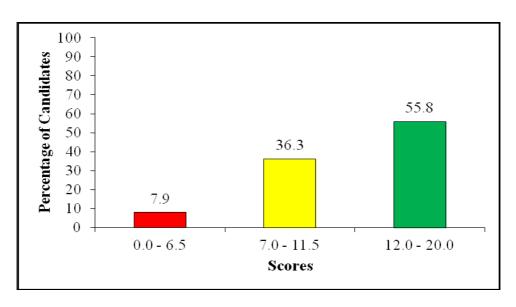
On the other hand, 15,230 (52.7%) candidates who scored from 7 to 11.5 marks had inadequate knowledge and skills on the topic on Water Masses. They failed to justify accordingly how coastal landforms are significant to human lives. Some of the candidates in this category managed to give the introduction of coastline but explained partially the importance of coastal landforms and did not conclude. Some candidates provided irrelevant introduction with few importance of coastal landforms with insufficient conclusion. Others mixed correct and incorrect responses on the significance of the coastal landforms.

Moreover, 5,348 (18.5%) candidates who scored from 0 to 6.5 lacked the knowledge and skills on the topic on Water Masses, hence they scored lower marks. In this category, some of the candidates failed to provide relevant introduction of coastline and the significance of coastal landforms. Some of candidates provided irrelevant introduction and failed to explain the significance of coastal landforms. Others explained the significance of tourism, instead of coastal landforms. For example, one candidate wrote source of foreign exchange, growth of towns and cities, source of income and source of employment.

### 2.1.6 Question 6: Space Dynamics

In this question, the candidates were given the statement that "Asha was travelling from Dar es Salaam to Mbeya. While on the way she started to experience changes of temperature from hot to cold and she did not understand why". Then, they were asked as expert in climatology to analyse eight factors which affect the temperature of a place.

This question was attempted by 34,577 (80.7%) candidates. The general performance on this question was good since 31,842 (92.1%) candidates scored 7 marks and above. Data analysis showed that 19,303 (55.8%) scored from 12 to 20 marks, 12,539 (36.3%) scored from 7 to 11.5 marks and 2,735 (7.9%) scored from 0 to 6.5 marks. Figure 6 illustrates the performance of the candidates on this question.



**Figure 6:** Candidates' Performance in Question 6

Further data analysis showed that, 19,303 (55.8%) candidates who scored from 12 to 20 marks showed adequate knowledge and skills on the topic on Space Dynamics, especially on the concept of climatology. They provided relevant introduction of temperature as the degree of hotness and coldness of the atmosphere. It is influenced by the amount of heat in the atmosphere. They managed to described clearly the factors which affect the temperature on that area as latitude, altitude, aspect, cloud cover, distance from the sea, maritime affect continental effect, length of the day, soil colour, distance from the sun, vegetation, winds and ocean currents. Also, they provided relevant conclusion. The strengths and weaknesses in their responses caused variations in their scores. Extract 6.1 is an example of correct response to this question.

		,
6.	lemperature to the chegree of hotness	
	or coldness of the body. Temperature is measured by	
	themometer and it's expressed in degree antigrade.	
	Temperature of an area is not constant, it tends to	
	vary from place to place, or from time to time to	
	some climatical factors or physical factors.	
	The following are the factors after	
)	cting temperature of an area.	
	Distance from the sun! Areas which	
	are near to the sun perihelion regions tends to re	
	expenience very high temperature due to radiation	
	from the sun, while Areas which are far away	
	from the sun example aphelion regions they expense	
	no Low temperature due to great distance from the	
	Sun at approximately 152 millions kmi	
	Distance from the seq! After which	
	the near to the soa example in costal areas like Pwan	
	and Dar-es-salaom in Tanzania tonds to expenience	
	high temperature because sea absorbs much solar	
	radiation and emits during night, But also in	
	great which are far away from the sea touch to	
	experience Low tomperature trample to inage desert	
	regions.	
	Nature of the Earth's surface , Temp	
	erature 13 also affected by the nature of the earth!	
	Parface example in apas covered with water wild	
	es the rate of temporature i's high simply because	
	water is a good absorber of solar energy from the	L
	sun, but areas constrect with Land there is low	/
	tomperature their is because land it absorb very	
	little amount of sun rays and the most it replicts	
	back this is because Land has no uniform colour,	

6.	Altitude: 1s the decrease in temperature
	due to increase in altitude. The temperatus of an
	area is affected by altitude just because in high
	Land there is low temperature but in low land them
	is high temperature this is because of environmental
	topstate, Example at the top of mound latimanjon
	there is low temperature while at the bottom
	there is high temperature.
	Aspect. This is the side of the
	mountain which is exposed to the sun; Is side
	of mountain which is exposed to the sun expenience
	high temperature the to absorbtion of sur rays
	While areas, or side of mountain which is not
	exposed to the sun receiver low tomperature.
	Clouds cover, Areas which is covered
	with clouds trends to experience low temperature,
	this is because clouds acts as an insulator from
	the incoming rays from the sun. But in area, where
	there is clear sley tends to expense me high temper
	tature due to absorption of sun rays example in
	desert areas other is no clouds cover.
	Ocean currents, In areas where there
	13 warm occanio currents Tends to have high temper
	tature rate example -along morambique than is
	warm oceanic currents. while cheas with cold
	ocean currents, the rate of temperature is very
	Low example along Benquela twee is coldocan
	current siso temperature is very low.
	Length of the day and right ! The
	long of the day and might also affects the rate
	of temperature of an area, This is because insolution
	on takes place during the day, so of day time

6, 15 longer than night time, the rate of temperature
tends to be very high, and those those areas with
long days expensence high temperature due to high
rate of insolation of incoming rays from the sun.
Generally: The temperature of an area
is not constant clue to the above factors. This is why
temperature tends to change from place to place from
time to time. To sum up, the temperature of the
earth is mainly determined by Sun, so sun rays
is a source of solar energy and temperature rate
on the earth's -sufface.
V

Extract 6.1: A sample of a correct response to question 6

Furthermore, the 12,539 (36.3%) candidate who scored from 7 to 11.5 marks showed inadequate knowledge and skills on the topic on Space Dynamics, especially on the concept of climatology. Some candidates in this category provided relevant introduction of the atmospheric temperature and explained insufficiently the factors affecting temperature. Some provided relevant introduction, but mixed up correct and incorrect factors affecting temperature of an area.

In addition, others gave irrelevant introduction of the atmospheric temperature of the atmosphere, explained few factors affecting temperature and did not conclude. For example, one candidate mixed correct and incorrect factors affecting temperature of a place and did not conclude. The candidate wrote; *human activities* and *rotation of the Earth* as factors affecting temperature. On the other hand, others failed to provide correct meaning of temperature of the atmosphere but managed to explain few factors affecting temperature. For example, one candidate wrote *temperature is the centigrade of the place*. This candidate did not understand that centigrade is the unit of temperature. Therefore, the candidates' average score on this question is a reflection of their relatively inadequate knowledge of the climatology.

Moreover, the 2,735 (7.9%) candidates who scored from 0 to 6.5 marks lacked knowledge and skills on the Space Dynamics topic especially on the

concept of climatology. They showed lack of the content of subject matter, especially on analysing factors affecting climate. Some candidates were able to define temperature in the introduction, explained partially few factors affecting temperature and did not conclude. Some managed to explain only few factors affecting temperature, did not write an introduction and conclusion. Others gave correct definition of temperature, but explained other geographical concepts which were not related to the concept of climatology. For example, one candidate wrote relevant introduction of temperature but provided other geographical terms which were not related to the concept of temperature such as; changes of sea level, amount of humidity, presence of the large water bodies, shifting of the continents during continental drifting and nature of human activities as factors affecting temperature. Another candidate wrote atmospheric humidity, components of air and presence of water bodies as factors affecting temperature. Extract 6.2 is a sample of such weak response.

6. Temperature Is the degree of hotros	1 00
Coldness or both in a certain area. Temper	atrue.
change is the variation of temperature of	igher.
in a certain area due to different veacon	1,
Temperature variy from area to area because	
several factors or activities that affect t	he !
temperature. Some of regions in Tanzania	
very hot like Dar ex-salaam and some o	42
Coldect like Mbeya, Ansha, Nimbe and other	
hollowing are factors that affect the temperation	me.
Ozone layer depression this affect	the.
Ozone layer depression this affect temperature through temperature rise since to	tu 020
ne layer plan a mle of omiting or converting	y the
coming solar radiation so as to prevent them	readin
my to the ground. Among with this problem nor	mally
experience high temperature due to direct inve	noin
of temperature. But areas where ocone layer	(1
atable the normal temperature can be meas	
but affected by other activities.	:

	Advisola Advisol Call House	
	Burning of Jas-il Juds, there after	<u> </u>
	being heated they romaly priduce energy bout	
	during the process of burning that heat normally	
	during the process of buring that heat normally rise in a certain area because of head. For example	
	coal and oil bue all these promote the increa	
	se of temperature from the normal situation.	
	Form and the dist the time of Care	
	the temperature since it lid to the increase of hotross digners. For	*
	of ud to the increase of notness digners. For	
	example in areas with natural gases experience thus.	- '-
	Exaption of volcanoes. This promote the	
	becurance of dark smoke to the admosphere and	
	hurning of registation which went to love of	
	vositation that are responsible for amiting the sun rays to avoid direct reaching to the ground volcanies had to increase of of temperature baca	-
6	sun range to avoid direct reaching to the ground.	,
	volcarbes led to increase of of temperature beca	
	ate of green house gates effect du to thick	
		T <sup>2</sup>
	Industrial adjusties also had to the	
	produced to the admissions that hed to green how	
	produced 18 in aftersphere That life to given how	
	effect that prevent the penetration of our rays. It the ground thus the change of temperature.	
	Areas with four industries are different with areas with many industries because of green - house gases. Por example India there are many industries which make them to experience increase or	
	oreas with many industries because of omeson	
	house gases. Por example India there are many	
	industries which make them to experience increase of	
	temperatue.	· •
	· Vegitation cover, this also is a tater	
	which affect the temperature since awar with	
	many trees are seems to have law temperature	
	white areas with less or no vegnitation experience	
	high temperature broad example 11 the Forest of	
	high temperature Good example is the Freet of Amason It contain low temperature because of being Conered by many trees. Also in desert area's like	
	Saharan Desert there is high temperature du to	
	lack of registron that regulate the sun rays.	· de 1
	Testing of nuclear weapons. There are	
	heave leve and That anote the see at ten section	
	because of nuclear reaction during explosion. Also	
	because of nuclear reaction during explosion. Also it can bed to orone layer destruction as it it is fireded to the atmosphere. This can cause the inversion of radiations due to dostruction	
	fireted to the atmosphere This can course	
	the inversion of radiations du te doutrution	
	of larger for converting the radiations so as to avoid the direct reaching to the ground. This also affect the temperature	
	as to avoid the direct reaching to the grand	
	11 MI also appeal the Comperature of	1 <sub>2</sub> 20

6	Mining activities, there also aftert	• , •
	the temperature since they led to atmospheric	
	pollution which result to prevention of our rous	
	pollution which result to prevention of our rows here to accumulation of solid particles in the atmosphere bout also Mining activities let to deflo	
	robere but also Mining adjustices led to detto	_
	restation which promote draught in an area be	
	cause of lacking rainfull. This promote the	
	temperature charge because of mining activities	
ŧ	in an away	E.
	climatic changes this I the average	
	variation of at weather condition in a curtain	
	area oner a long period of time, Some yours	
	area ones a long period of time. Some years contain long hot seasons that result to high	
	temperature occurance in a citain area But	
	also some years contain long rainy season while	
	temperature occurance in a artain area. But also some years contain long rainy season which results to decline of temperature in aroas for	
	a long time. This affect the temperature	
	because of climatic charge.	, - ,
	Generally, Temperature charge	
	can result to drawalut skin cancer, loss of	
	can result to draught shin cancer, loss of biodivepitios supecrally when it is high. But also when it is low it led to preumoni	
	But also when it is low it led to presumoni	
	a problems du to coldness es some avai.	
	a problems du to coldness of some avoge. Those factors caused by human activities sup- que to be eradicated so as to primote the bodance of temperature to avoid regarine	
4	pure to be eradicated so as to promote the	
	Podance of temperature to inid romatine	, ;
,	impact.	

Extract 6.2: A sample of an incorrect response to question 6

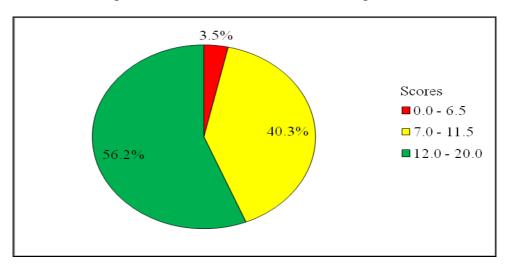
In extract 6.2, the candidate provided relevant introduction of temperature. Instead of explaining factors affecting temperature, the candidate explained causes of environmental pollution such as; climatic changes, ozone layer depletion, burning of fossil fuels, eruption of volcanoes, industrial activities, testing of nuclear weapons and mining activities.

# 2.1.7 Question 7: Study of Soils

Candidates were given the statement that; "In Chekereni village, farmers were observing changes of their farm produce to worse condition and rampart soil erosion in the village and their farms" as agricultural expert,

they were required to explain to farmers how soil erosion is a product of both natural factors and human activities in eight points.

This question was answered by 39,350 (91.8%) candidates. The general performance was good since 37,970 (96.5%) of the candidates who attempted it scored 7 marks and above. Data analysis showed that 22,103 (56.2%) candidates scored from 12 to 20 marks, 15,867 (40.3%) scored from 7 to 11.5 marks and 1,380 (3.5%) scored from 0 to 6.5 marks. Figure 7 illustrates the performance of the candidates on this question.



**Figure 7:** Candidates' Performance in Question 7

Further data analysis showed that 22,103 (56.2%) candidates who scored from 12 to 20 marks revealed adequate knowledge of the Study of Soils topic on especially on the concept of soil erosion specifically on the factors influencing soil erosion; both natural and human activities. Despite the fact that candidates in this category scored higher marks, their marks varied due to the strengths and weaknesses of their points. Some candidates for example gave relevant introduction of soil erosion, provided eight factors that influence soil erosion as both natural and human activities such as; farming activities, deforestation, mining activities, overgrazing, burning of vegetation and construction activities. They further explained natural factors that lead to soil erosion which include: mass wasting, acid rains, nature of the surface, nature of the rock structure and climate. Extract 7.1 illustrates such good responses.

07.	Cail telery to the Manor Mast lawer
	of the early to direct on which about can
	Soil testers to the uppermost layer of the early 13 surpase on which plants can grow. It consists of unconsolidated materials like
	drang Matters, in organic Matter and Water as
	Will no nir.
	well as air.  Joil erosion teens to the process in which soil is knowed by agents of enormal like howing water and wind. There is normal doil erosion and accelerated soil erosion. Soil
	Which wil is tenoual to acet of ancho
	1/10 hilliam halam and him Those is appeared
	this on the and accepted only and
	and station and according and station. Toll
	Out ension and accelerated full ension. Juil  ension is coursed by both natural factors  and human activities.  In this regard the following are the natural fractors  for suil ension;  Climatic factor associated with high  rainfall Rainfall can lead to suil ension especially  in areas which recieve high amount of rainfall.  Water dops of the rainfall hits the ground as a  result of making it detached from the bedrock-  Away from detaching it tain water also takes  away suil particles as a result to ension. This  is huch depends on the vegetation cover of the  area and the stope. Thus this is a natural
	and mman activities
	In this regard, the pollowing are the natural pages.
	Of on enim,
	Chimatic partor assurated with high
	Tain fall Kain fall (an lead to juit entition especially)
	In areas which fecieve high amount of rainfall.
	Water drops of the rainfall hills the ground as a
	result of making it detached from the bedrock
	Away from detaching it tain water also lakes
	away svil particles as a result to environ. Ihis
_	is huch depends on the vegetation cover of the
	area and the dup. Thus this is a hatural
	Course of duil envilon.
-	area and the stope. Thus this is a natural course of Juli english.  Course of Juli english.  Course of Juli english.  Course as Juli english. In a general meaning, stope is the escapment of the land, mustly from up ward to the down wards. Areas, which have steep
	aculerate sui cincion in a general meaning, slupe
	1) The escapnient of the land, mustly from up
	ward to the downwards Areas which have steep
	There will according and soll scitted and
	It be comed fand MI he alfalled hallenals to
	more downward away from when they were
	formed. Thus prist of areas which are found in

07.	hilly akas are affected by suil ension.
	Nature of the svi) particles may lead
	Nature of the svil particles may lead to ension if it is look-svil ension is also
	dependant upon the natural father. Super suit
	Particles no loose naturally from the live of its
	tribution to kind of All particles are the
	dependant upon this natural father. Super suit  particles are love naturally from the line of its  permation, this kind of suit particles are free to  hove in case water tains and transpirt them.  Thus, naturally suit environ depends on suit itself  and its texture. This is disastrops in areas  where suit has not undergone full processes  of the top anation.
	Thu naturally soil environ depends on soil itself
	and its texture. This is disestrow in areas
	whole soil has not undersome full processes
	Mail wasting also influences suit
	ension. This is the process in which the look
l	The trigological region of the March Campaign I
	by the oranitation three. May wasting influence
	(a) engine as the note its ancesses it takes
	by the granitation torce. Mass wasting influences  soil ension as thin high its processes it takes  with it look soil materials which are weathers
	from high lands to luw lands. For example through
-	kind flow, soil englow is likely to occur as it
	Paty rated with water.
	On the other side human activities can lead to the
	occurence of soil ension in the tollowing ways;
	Overgrazing especially in postural
	Occurence of soil ension in the pollowing ways;  Overgrazing especially in pastural  Ovieties causes soil ension. This is the habit of
	having many animals like cows grats and to on, on the area which is little compared to
	on on the ara which is liftle compared to
	The number of animals kept. It is practiced
-	Much in partiral societies like in Macrai lands.
	Overaging makes the foil to be more love from
	its base and thus making engined agents to
	MUNG Ham to different places freely.

07.	Deforestation. This refers to the	
	On for the cutting druce time holl out too leating	
	process of cutting down trees will out replanting them in an area. This causes soil eromon as	
	it act as a cover on the svil and thus its	
	Lepho real history to sail evented to the encount	
	agent like water and wind. Debuggeteting is	
	agents like water and wind beforestation is  Planticed much in aleas where litere is high  establishment of agricultural activities and industrial activities, also bettlement establishments in various	
	establishment & agricultural activities and industrial	
	activities, also lettlement establishments in transmi	
	0/0.00	
	places.  Pour agricultural helio ds. There include Cultivating in hilly areas, Mono culture and cultivating in areas which are nearer to water bodies and prone to dimaric influences like high tainfall. All these now agricultural Systems make the doil detached from the base and easily washed down by ensimal agents tuch as myna water. Cultivation activities on	
	include Cultivating in hilly areas Monoculture	
	and cultivating in aleas which are nearer to	
	water bodies and some to dimeriz influences	
	like high rainfall. All these over agricultural	
	System make the soil detached from the base	
	and easily washed down by ensimal agents	
	such as hising water . Cultivation activities on	
	hilly areas makes the pril to now downward	
	Marter as enjing takes place. This might be the	
	Cause of soil ention in Chekeren inlage.	
	hilly areas Makes the svil to hove downward truster as ension takes place. This Might be the laws of svil ension in chekeren; hillage.  Exassive mining activities. There are	
	The activites which include the exploitation of	
	Milwai (IIIM under mund. M well linco it involve)	
	lingging will or expline the ground openly it	
	Makes the full by plate to known activities	
	the activities which include the exploitation of minerals from underground. As well since it involves diagoing holes or expering the ground openly, it hakes the soil by prope to ensimal activities. Also mining activities involve the defocutation at activities which at last makes the soil naked exposed to agents of ensime. These areas also take soil ensime and lastly becomes not.	
	examples of any of the first maked	
<u> </u>	the cuit on the and least because and	
	Buitable for agricultural artivities.	
L	Drilma (hi Millima allalis).	

Extract 7.1: A sample of a correct answer to question 7

Furthermore, the 15,867 (40.3%) candidates who scored from 7 to 11.5 marks indicated inadequate knowledge and skills on the topic on Study of Soils, particularly soil erosion. Some of the candidates gave relevant introduction of soil erosion, explained few factors influencing soil erosion (both natural and human activities) with relevant conclusion. Some gave partial introduction, explained few factors that influence soil erosion and did not conclude. Some provided irrelevant introduction of soil erosion and

explained only human activities that influence soil erosion and did not conclude. Others provided relevant introduction of soil erosion but mixed up correct and incorrect natural factors and human activities that cause soil erosion and did not write conclusion. Examples of incorrect responses were: *loss of biodiversity, lead to desertification,* and *decline in agricultural production*. This candidate did not to understand that these are the effects of soil erosion.

Moreover, the 1,380 (3.5%) candidates who scored from 0 to 6.5 marks showed inadequate knowledge of the concept of soil erosion. Some candidates provided irrelevant introduction, explained few factors of human activities and gave incorrect conclusion. Some gave relevant introduction, but failed to provide natural factors for soil erosion. Others wrote irrelevant introduction of soil erosion, explained effects instead of causes of soil erosion with irrelevant conclusion. These poor responses made the candidates to score lower marks. For example, one candidate provided relevant introduction of soil erosion and provided the resultant features of soil erosion such as; soil erosion leads to the formation of various landforms such as; valleys, basins and water bodies, instead of causes of soil erosion. Extract 7.2 represents a sample of weak responses on this question.

7. Soil Consenation; U he process of presenting
I soil for proper and sustainable the . The following way
of preserving soil enough.
Afforestation and Reciptorestation; This is prives
of preserving planting how this May lead to soil
Conscient and lay lead to be horage of soil
Torthy and Therefore Many lead to be growth of
plants well
hulding; to be process of Covering Corps
with glasses in order to Restore Moutus hus
U also present not soil Ension but also lb
May lead to the Better Cops that Increase of
Crops in he field.
Com tow ferring! Is he
process of Cultivating plants in Contour line
The process help to growth of pleast will but
also to May lead to presentation of Julani
uk ·
Terracing! 4 hre process of Cultivators grops
by terrace of farmer who want it produce
alof of product that we Torracing helped
screen 16 stoke water and provent It from
Joil avoium
Agrofoxstation; Is the process of plunting trees.
and engs in order to pricent soil known his

7. U good Becaux here preserve weeker in he hast	
that can be lived to grow house pleased caps	
In he held.	
Cup potation! I he process of charging the	
Copy In Each plot Through out of the year his	
to you can bedule humostydon and objective	
dy wholeston which are Maire and Beans his	
help fame to produce in quantities and quality	
production.	
Intercorpping! The to prehind to fewer properties	
Because ate famer can get benefit by produ	
ary also of products were since here is how	
Type of graps heat a cultivated.	
Covering Crops! I be proces of pleasures	
Grops in which can your he Grops and both to	
Report fronter hat help in plants or growth	
lose well	
Trentori Two part pahado cem hop a	
Tenner to powerf he form from soil ensure	_
to get alut of Yet Yield of better quality	
and quantity.	

Extract 7.2: A sample of an incorrect response to question 7

In extract 7.2, the candidate explained agricultural practices that protect soil from erosion such as; *afforestation, reforestation, mulching, contour ploughing, terracing, crop rotation, intercropping planting cover crops* instead of human activities which lead to soil erosion.

#### 2.2 113/2 GEOGRAPHY PAPER TWO

This paper consisted of seven questions which were set from two topics; *Population and Development* and *Regional Focal Studies*. Question 1 and 2 were set from the topic on Population and Development while, questions 3,4,5,6 and 7 were set from the topic of Regional Focal Studies and the subtopics of *Livestock keeping and management, Sustainable use of forestry, Environmental friendly tourism, Sustainable mining and Manufacturing industries*. The candidates were required to answer a total of five questions whereby, question number one (1) was compulsory. Each question weighed 20 marks.

#### 2.2.1 Question 1: Population and Development

The question was compulsory and required the candidates to support the statement that, "population growth is a serious problem in developing countries" with seven points.

The question was answered by 42,861 (100%) candidates. The general performance on this question was good since 39,051 (91.2%) candidates scored 7 marks and above. Detailed data analysis showed that, 31,783 (74.1%) candidates scored from 12 to 20 marks, 7,268 (17%) scored from 7 to 11.5 marks and 3,810 (8.9%) scored from 0 to 6.5 marks. Figure 8 illustrates the performance on this question.

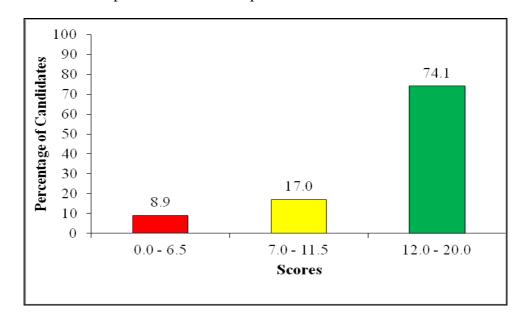


Figure 8: Candidates' Performance in Question 1

Further data analysis showed that, the 31,783 (74.1%) candidates who scored from 12 to 20 marks understood the demand of the question. They had good writing skills, were able to support the statement that population growth is a serious problem in developing countries and provided relevant conclusion. For instance, one candidate defined population growth as the change in population in a certain geographical unit at a specific period of time where it is the determinant of the population size which is measured by the annual percentage increase. The candidate also explained the problems brought by population growth as; slow growth of GDP, food shortage, exhaustion of resources, environmental problems, unemployment and underemployment, inadequate social services, political and social conflicts, social misconducts and spread of diseases. The variation in their scores was determined by the strengths of their responses. Extract 8.1 is a sample of the correct responses from one of the candidates for this question.

1.	Population growth refers to the incre	
	ase in the number of people living in a certai	
	n geographical areas at a specific time of	
	pgriod. Daugloping countries are countries	
	which are still struggling to attain economis	
	development in the country for example most	
	of the African countries like Tanzania,	
	kgnya and uganda : It is true that popula	
	tion growth is a sprious problem in developi	
	ng countries due to the following:	
	Increase in unemployments an	
	increase in the number of people in a	
	particular country expecially in -lines & day	
	loping countries where there is too	
	technology and poor intrastructures many	
	of this people will lack places to work	
	and garn their living standard which	
	will help them in daily running of	
	their lives and to cater for their	
	basic needs for example tood.	

Exhaustion of resources for	
example mineral recourses will be extrau	
ited dug to high competition rince that	
the available resources may be Low	
Compared to the number of people living	
compared to the namet of the sale of share	
over that specific country where an every one will be having a dream of obtaining the second of the	
ong will be indening a differing to state their	
lind the transmitted that	
wants and reach to their maximum as	
human trigs to maximize their wants	
with the available limited resources!	
Hance exhaution of resources	
1. Congestation in towner for example in health centers and education institution	
in health centers and education initiation	
like school -there will be a huge number of people rince that an increase in the	
of people since that an increase in the	
number people may result in rural-ur	
ban migration where people go in equal, of economic opportunities so as to run their daily living and earn some	
tun their daily living and same	
thing to had them in their life!	
thing to help them in their life ' Increase in government burdens	
for example the government should construct	
more education centers, health centers and	
other administrative initiation so as	
every citizen to be in a position to	
cocama battar samiral toom thair	
government something which may retard	
ollige aqualopman activities to take place	· -
in the country	
It may lead to deterentations in	
down the treas without replacing them	
and tilapling their fails religance	
which bring about wary his problem in	
which bring about very big problem in the environment for example it may	
lead to desertification of an area since	
the area will be barren and tormation	
of raintall will be very tow.	
apread of direater, for example	
Gorona, cholora and HIV and typhoid may	
by spread case from one passon to	
another due to high number of people while	
chich facilitates gary contact among people	

1. to ensure and facilitates gasy spread of	
disparque among the people in a place.	
Emgraency of crimqui for examply	
robbaring, prostitution and terrorium may	
increase due to high existence of un	
employed people in the society and find	
the kind of act like illegal activities so	
as they may obtain their living and	
earn something in the running of their	
daile life.	
Conclusively, population growth	
also it is an aug to some extent as	
It ensure rapply of tapour and also it	
ancourage innovation and inventions	
which facilitates in the aconomic	
development in the country and an	
increase in government revenue.	

Extract 8.1: A sample of a correct response to question 1

Moreover, the 7,268 (17%) candidates who scored from 7 to 11.5 marks revealed inadequate knowledge which obscured them to provide the required number of points as the question demanded. Some of their responses were mixed up with correct and incorrect answers while, others were dominated by the repetition of points. This might have led them to score the range of 7 to 11 marks. Examples of incorrect answers were; overpopulation, occurrence of natural calamities, eruption of instabilities, leads to rural depopulation as many people migrate from rural areas to urban areas and lack of development in advancing technology.

On the other hand, the 3,810 (8.9%) candidates who scored from 0 to 6.5 marks showed lack knowledge and focus on answering this question. Some of the candidates failed to provide the required number of points as per question demand. The few points provided were not even well explained.

Some of the candidates in this category provided correct introduction of population growth, but explained the factors that led to the causes of population growth such as; *poor population policy, poor family planning, early marriages, and women are not empowered and also religious beliefs* instead of problems brought by population growth.

Other candidates explained the causes of high population growth such as: cultural factors, availability of enough food, high fertility, poverty among the people, religious factors, problems of modernisation and poor population policy, instead of the problems caused by population growth. Some candidates concluded by providing irrelevant conclusion.

Others explained problems facing developing countries such as; *poor nutrition, poor social services, high mortality rate, poor infrastructure, low level of science and technology, low life expectancy and presence of poverty, poor nutrition, poor social services, high rate of mortality, dependency on agricultural sector and poor infrastructures, instead of explaining problems brought by the by population growth in developing countries. They failed to provide any conclusion. Extract 8.2 is a sample of incorrect response from one of the candidates.* 

1 Population is the total number	
of people living in a certain	
geographical area. Population is not	
always constant due to factor	
that affect population, Population can	
change due to birth rate, migration	
and death rate. Population also can be	
high or low depends on different factors	
of an area. It is argued that population	
growth is a remous problem in developing	
countries. Due to the following reasons	
below;	
t increaser Labour supply: Due	
to high population as people are	
many then It will trad to	
increase in Labour rupply to be	
working in different sectors of the	
economic History was to the	
economy thigh Labour supply is very	
important because it reduces the rate	
of dependency in the economy and	
make the living standard to be high.  Example, in Dar-es-salaam a'ty.	
I trample, in Dar-es-Salaam a'ty.	

II I A A A A A A A A A A A A A A A A A	$\neg$
- It lead to expansion of Markets. due	
1 to high population It lead to expansion	
of markets because their is high	_
labour availability that are involved	
in different sector of the economy.	_
Thats why most part of the	
developed markets than in the roral	_
developed markets than in the roral	
areas because their in high population	
compared to the wrol areas.	
Example, In Urban areas of Tanzania.	
Encourages opecialization! when	
people are many every individual	
wisher to be employed due to	
this it creates specialization at	
work to avoid Congestion and	
conflicts at work. Due to epecilization	
It enhances factor accomplishment of	
work and creates development to	
people due to faster a complishment of jobs	
Example, In Manufacturing and Mining rector.	
It ensures utilization of resources:	
high population ensures their is	
fully utilization of recources in the	
economy and hance avoiding the resources	
to stay idle without being utilized.	
Normally in the orban areas resources	
are more utilized than in the roral	
areas because in the urban areas their	
is high population compared to the	
nural areas where people are few.	
Example, exploitation of mineral resources.	$\neg$

	Increases labour Mobility: when the	
	population is high It (reates high	
1.	labour Mability the Dresence of	
	high Labour mobility it leads to	
	transfer of tochonology from one	
	high labour mobility it leads to transfer of techonology from one place to another and transfer of	
	technology relps in the development	
	at industries of Tanzania. People	
	one place to another for work, hence	
	one place to another for work, hence	
	improves their living ortandard-through work.	
	Example, through International trade.	
	It is source of high revenue to government:	
	aux to high topulation in the	
	developing countries as people are involved in various activities they create	
	on various activities they create	
	high revenue to government because	
<u> </u>	they contribute through their job opportunities in the economy hence revenue It helps the government It's doily duffes.	
	the bold the source of the ability	
	Examples, through taxes and rent.	
	It leads to development of local	,
	industries: high population leads to	
	development of local industries as	
	logande they are highly involved in	
	different afficities to earn Income	
	different activities to earn Income and improve their Living. Through this	
	different industries are being	
	established and hence people are	
	and improve their living standard too.	
	and improve their living standard too.	
	Example, food processing industries.	
	Generally, high population has both the	
	poritive and negative to the environment	
	of people. Hence if there is overpopulation	
	may to problem. Like anvivormental pollution and overutilization of resources	
	pollution and overutilization of resources	•
	that retards economic development of	
	a country.	

Extract 8.2: A sample of an incorrect response to question 1

In extract 8.2 the candidate explained the importance of population growth such as; increase labour mobility, expansion of market, encourages specialisation, ensures proper utilization of resources, increases labour supply and leads to development of local industries, instead of problems caused by population growth in developing countries.

#### 2.2.2 Question 2: Population and Development

The question required candidates to examine four negative effects of high populated areas and suggest four measures to overcome the situation. It was attempted by 38,853 (90.6%) candidates of which 31,933 (82.2%) scored from 12 to 20 marks, 6,660 (17.1%) scored from 7 to 11.5 marks and 260 (7%) candidates scored from 0 to 6.5 marks. The general performance for this question was good since 38,593 (99.3%) candidates scored 7 marks and above. Figure 9 illustrates candidates' performance for this question.

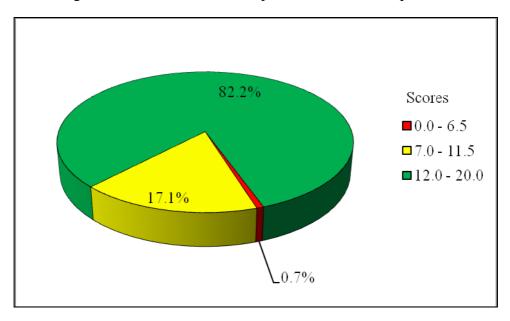


Figure 9: Candidates' Performance in Question 2

Further data analysis indicated that, 31,933 (82.2%) candidates who scored from 12 to 20 marks had adequate knowledge of the subject matter. They provided relevant introduction, examined the negative effects of high populated areas and suggested correct measures to overcome the situation. One candidate for example examined the negative effects of highly populated areas as; *high rate of unemployment, environmental degradation*,

housing problem, traffic congestion, spread of diseases and low level of income.

The same candidate also suggested the correct measures to overcome the situation as; formulation of appropriate population policy, to promote and improve the health and welfare women status and children, to promote education, to promote sustainable relationship between environments and the available resources and man power mobilization. The variations in their scores were determined by the strength and correctness of their responses. Extract 9.1 represents a sample of a correct response from one of the candidates for this question.

02.	Population 4 the increase of number of people in	
	a cartain or specific geographical area. African	
	a cartain or specific geographical area. African cities such as Der-es-Salaam, Mbeya, Mwanza no Kighali,	
	Bujumbula, Mombaca, and Namobi experience high population	
	the may be due availability of employment opportunities	
	and availability of social serveces such as hospitals -	
	School, Market and so forth. The following are the -	
	negative effect of high populated areas:-	
	Spread of descare due to high population can lead	
	to the spread of descar especiall emption descares like	
	Carona (COVID 19), Example, during COVID19 season	
	in Tanzania the spread of the descare wear in	
	Dar-es-salgan this is due to high population herene	
	Apprean countrier should control the population in cities bocause	
	there some areas has zone population	
	Increase of Cremary they be due to that the increase	
	of population increase the number of Crimes and criminals	
	increase. Example Previous day in Dar-es-salaam there	
	was emergence of Panyaroad group which was based	
	robbering people. Therefore population is cities should	
	be controlled or otherwise there should be strong	
	security go as to gradicate crimes.	

$\neg$

2. Introduction and implementation of laws and population	
policy, there is due to that the government should introduce	
and implement street laws so as to ordercome crimar in	
cities but also the government should introduce and	
implement Population policy. Example in Tanzania -	
Paul Makonda the reference co-regional commissioner	
of Dor-es-salgam intruduce and implement the laws	
about crimes.	
Creation and provision of employment and employ	
ment opportunities, the & due to that the government	
should ervato employment apportunities and it should	
employ people in different aspects so as to andreate unemployment in the cities. It so the government should	
unemployment in the cities , & so the government should	
do so in order to endecate as reduce unemployment.	
Generally Overpopulation in & African cities can	
be controled so as to increase de economie develo-	
Princip To African Countries Laws and polo policies	
Should be inacted and implemented well in order	
te over come over population in Agrican cities	

Extract 9.1: A sample of a correct response to question 2

Further analysis indicated that, 6,660 (17.1%) candidates who scored from 7 to 11.5 marks had inadequate knowledge and skills on the subtopic of population growth and social economic planning, especially on the concept of negative effects of high populated areas.

Some of the candidates gave relevant introduction and they insufficiently explained the negative effects of high populated areas. Yet they failed to suggest measures to overcome such effects of high populated areas. Some provided irrelevant introduction with wrong negative effects of high populated areas. However, they managed to suggest few correct measures to overcome the effects of high populated areas. Others mixed correct and incorrect negative effects of high populated areas. Examples of incorrect effects were *conflicts*, *natural calamities* and *marriage condition*.

On the other hand, the 260 (7%) candidates who scored from 0 to 6.5 marks were not competent on the subtopic on population growth and thus they failed to meet the demands of the question. Some of the candidates gave relevant introduction on high populated areas, but they examined

insufficiently few negative effects of high populated areas. In addition, they did not suggest the correct measures to overcome the situation. One candidate for example mixed up the correct and incorrect effects of populated areas as well as suggestions to overcome the situation. Examples of incorrect effects provided by some of the candidates were *marriage condition*, *civil wars*, *acid rains*, *global warming* and *ozone layer depletion*. Incorrect measures suggested were: *maintaining industrial activities*, *to avoid bad cultural believes* and *recycling of wastes*. Extract 9.2 is a sample of an incorrect response from one of the candidates for this question.

Over population. Meter to the raped increase of the
number of people over population in an area is located
need with pactors 1860 heigh birth rate, Low death rate
increase of the the expectancy development of the soci
need with factors 1860 heigh birth rate, Low death rate  nousease of the 1870 expectancy development of the soci  al Infastructures. The following are the Negative effect
of high populated areas.
of high populated areas.  Soil provion This repers to the removal of an
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hunger since the 2011 can not support the plant growt
h which act as source of poor For both animal and hum
an home
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Land degradation: Rapid increase in the escal number of people in an area lad to the Land degradation and due to that Land past to produce as
dation and due to that Land pass to produce as
the result of the Overpopulation in a Geographic are
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Defforestation: Thu refers to cutting down of troos within the replacement of other trees this is caused by the rappel increase number of people as people are in high demand of the wood but also trees are is seed to construction and deforestation had to soil erasion as the result hand post to produce or to have poor production.
troos withiout the replacement of other trees this is
Carried pt the rapid sucrease number of booble as beoble
are in trigh demand of Fire Wiscol but also troes are i
Seel to construction and deposed ation Lad to soll ensuin
as the result Land for to produce or to have poor produ
L.VOU?
Draught, Kapid inclease number of people in
Drought: Rapid increase number of people in a radials Grosspaphical area Led to the occurance of drought due to the over explostation of vegetation to
deposit and to the over exploration of vegetation to
establish settlement or any other zurs Lod to the one
right.
The following are the creatures to everome the
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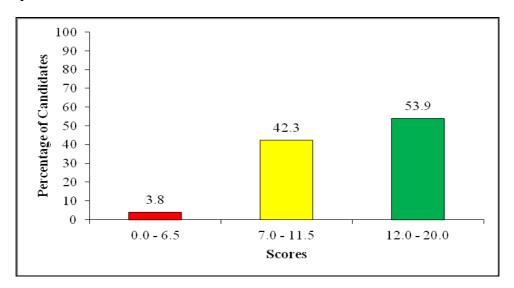
02	Power the and tope token The extent
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	before and planting trees where there is other tree h
ļ	are been cut this belp to solve the problem of defte
	restation carried by rapid increase of the number of
	the people.
	Provision of employment opportunity to the peo
	ple because oversepulated areas Face the Challange at
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	Unemployment therefore through providing Education
	tind an alternative sources of energy with
	en than depending on trees only because depend  Prop energy resources from trees contributed to dro  ught and deferestation other sources sochude wind
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	death rate and increase of the birth rate but also
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	equate provision of social revision, Increase of the
	to Orany people.
	The Wary Donole ,
-	1 to Otal People

Extract 9.2: A sample of an incorrect response to question 2

In extract 9.2 the candidate explained environmental problems such as; *soil* erosion, land degradation, deforestation and drought. Furthermore, the candidate elaborated ways on how to combat those environmental problems such as; afforestation, employment opportunities, alternative energy sources, and establishment of irrigation system, instead of elaborating four negative effects of high populated areas and suggesting four measures to overcome the situation.

#### 2.2.3 Question 3: Livestock Keeping and Management

This question required the candidates to describe four negative impacts of livestock keeping on the environment and suggest four appropriate measures to overcome the problem. The question was attempted by 23,383 (54.6%) candidates. Data analysis showed that, 12,605 (53.9%) candidates scored from 12 to 20 marks, 9,888 (42.3%) scored from 7 to 11.5 marks and 890 (3.8%) scored from 0 to 6.5 marks. The general performance of the candidate for this question was good since 22,493 (96.2%) candidates scored 7 marks and above. Figure 10 illustrates the performance for this question.



**Figure 10:** Performance Candidates in Question 3

Data analysis revealed that, 12,605 (53.9%) candidates who scored from 12 to 20 marks demonstrated adequate knowledge and skills on livestock keeping and management subtopic. The candidates in this category gave correct introduction of livestock keeping. They described clearly the four negative impacts of livestock keeping on the environment and suggested four appropriate measures to overcome the problems.

One candidate for example, provided correct introduction of livestock keeping, and explained the negative impacts of livestock keeping as; land degradation due to overgrazing, it leads to environmental pollution, some diseases which affects animals can affect people economically, livestock keeping leads to drought or desertification due to destruction of vegetation. The candidate also suggested four appropriate measures to overcome the

problems such as; destocking, the use of fenced padlock, proper land use, diversification of the economy and mass education. Moreover, the candidate managed to provide relevant conclusion. The variations of candidates' scores in this category depended on the quality of their answers and the elaborations they made in each point. Extract 10.1 is a sample of correct responses on this question.

03	Livertock (leeping: I the eliminic
	activity implie the lapping of attle for comm
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	sheep, dunkey and horse, livestick (coeping in
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	Mayar tukume and the keepine is mostly
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	the impacts of the livesteck Keeping to the environment
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	livesteck keeping exceed the camping capacity
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	due to increase of temperature, destroy the -
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	by animal influenced to the los of fetility,
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	expired agents of the evining example the
	weller that lead to the pollution of hater -

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	100 lb pollution of noter bodies example in
	dam, wetland destroyed also, the sol levin
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	region and singide die & presence of leage cettle
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	large when of capital case he supper
	vegetation in the locality due p waters
	the partire to feed the coffee therefore
	regetation in the locality due to finding of the parture to feed the cattle therefore the regetation are begleted if the Overgraving
	and whitting animal leaping precise are
	dore. this is the disaste to the environment
	Also the effect can be minimized
	by following appropriate measures in livestick
	by following appropriate measures in livestek  Ideeping impacts:  Establishment of ranching farming:
	Establishment of vanishing farming
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	they hard league cattle in protected areas called ranches, this can enable to overwise the boil erosion and legislation
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	Is less my her of cattle cense reduced
	high lake number of cattle can be reduced.  by destrebing to aveil the soil elision
	the construction of the rest and level
	water scarcity and lenter conflict among farmers and the pastore tit
	there are with soften and the
	therefore an him wrette problem.

Extract 10.1: A sample of a correct answer to question 3

Furthermore, the 9,888 (42.3%) candidates who scored from 7 to 11.5 marks revealed inadequate knowledge to meet the demands of the question. They described few negative effects of livestock keeping on the environment. Some candidates mixed correct and incorrect measures to overcome the problem. Also, some of them provided incorrect conclusion. For instance, one candidate provided relevant introduction of livestock keeping as; *human activity which deals with keeping animals like goats*,

cows and other related animals and provided negative impacts such as; deforestation, soil erosion, leads to the loss of biodiversity and leads to global warming with wrong explanations. The candidate suggested the following as the measures to overcome the problem: improvement of science and technology, afforestation and reforestation, enacting and formulation of policy and introduction of proper methods of disposal and animal waste and chemicals. Lastly, the candidate provided irrelevant conclusion. Other candidates explained only few negative impacts of livestock keeping while, others suggested only appropriate measures to overcome the situation.

However, 890 (3.8%) candidates who scored from 0 to 6.5 marks showed to lack knowledge of the negative impact of livestock keeping and the environment. Some of those candidates failed to provide relevant introduction. They explained few correct negative impacts of livestock keeping on the environment and suggested few correct measures to overcome the problems. One candidate for example, suggested incorrect measures such as; introduction of good market, avoid overgrazing, establishment of range land and government support. The candidate also managed to give relevant conclusion. Another candidate suggested the following incorrect measures; establishment of laws, provision of education, provision of loans to the farmers and provision of science and technology, stopping pastoralist from moving with their cattle and establishment of ranches

Examples of incorrect effects explained by the candidates were: *harsh* climatic condition, population increase, animal attack from diseases, insufficient capital, poor quality of pastures, poor climate, low level of capital and poor storage and processing factories. Extract 10.2 presents a sample of the candidate who failed to meet the demand of question 3.

Parto k Kai / H. a. ALV a	$\neg$
S' orrearing of animals Such as hen, Cow, goats,	_
Livestock teeping on lanzanda is mostly benefit	
I the enterpreneurship. The following are the	
Nagotive Impacts of Livestock Kexping on the	
Environment and four measures to Overcome	
the problems. Respectively.	
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Upper Jos of waded away So the fivestock	
Keeping make or affect the Soil to be vaded	
Lesping make or affect the Soil to be voided for fechnology; that is where by the	
pastoralist they Lack technology also when	
they keep their livestock the not in a good	
area, So Tanzanda Live Arch technology & Low	
Example Maasar they have forge numbers of	
anduals or cows and they have no specific	
place to fixed them.	
Low Capital; In this also the paste	
rated they tack capital in which they could	
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their westerk keeping since they lack -	
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groded due to the large number of Errestock	
The following are makeres to overcome the	
Problem.	
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<u>-</u>	restort Keeping to the fasteralist should be
7. Su	port. trample maasar strould be support
0 0	In their production of tivestock to out
10	develop the Brustock Keeping.
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pa.	storalist culo Keeps Lixstock they should
be	provided Education in which can help
the	en in feet heir animals well in treat
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	Prividen of Social Services; lu rangent
Ru	a government they stigued provide pastoralist
ai	g government they stiguld provide pastoralist  The the provision of Jocial Services Example
fo	od, The Her, water Supply and Slectively
'	Provision of raw materials, lulauxun
H	us pastoralist in their production they
e	rended providedo ran materials such as tools
for	- the Isvestock Keeping.
1	Then fore Livestock Keeping &
A	y food production also it the led to flie -
	nologine at Opportunity.

Extract 10.2: A sample of an incorrect response to question 3

In extract 10.2, the candidate explained problems encountered by livestock keeping such as; *low technology, low capital, lack of government support* and *diseases* instead of the impacts of livestock keeping on the environment.

## 2.2.4 Question 4: Sustainable Use of Forest

This question required candidates to give an account of eight factors which led to the development of timber industry in the Parana Pine Forests of Southern Brazil. The question was answered by 27,910 (65.1%) candidates. Data analysis showed that, 21,291 (76.3%) candidates scored from 12 to 20 marks, 6,390 (22.9%) scores from 7 to 11.5 marks and 229 (0.8%) scored from 0 to 6.5 marks. The general performance for this question was good since 27,681 (99.2%) candidates scored from 7 to 20 marks. Figure 11 gives more illustrations of the candidates' performance on this question.

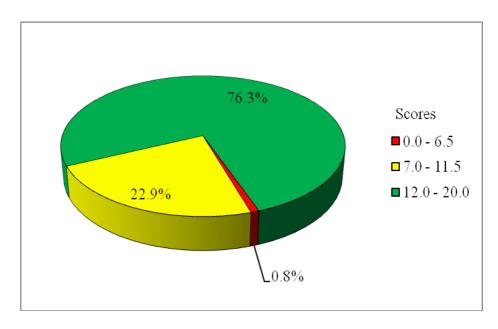


Figure 11: Candidates' Performance in Question 4

The 21,291 (76.3%) candidates who scored from 12 to 20 marks revealed adequate knowledge of the subject matter. They managed to give an account of eight reasons for the development of timber industry in Parana Pine forests of Southern Brazil. One candidate for example provided relevant introduction and explained eight factors which led to the development of timber industry in the Parana pine forest of southern Brazil. The factors were; accessibility of market, presence of good tree species which are in demand of the world market, forest management and land use, government support, application of innovative technology, improvement of transport and communication, good climatic condition and availability of skilled labour. The candidate also gave relevant conclusion.

The variations in their scores were due to the varying strengths of their responses. Extract 11.1 is a sample of a correct response from one of the candidates who answered this question.

04.	Timber of the text of the state	
	Timber industry regar to the sustainable exploitation	
	and processing of timber as forest resources by man.	<del>-</del>
	Brazil is a country located in doubt America which is the one	
	of the leading producer of timber products experizely the	
	Parana gines. The zones which largely produce Himter	·
	products include the Parana Pine at Amazenz basin.	<u> </u>
	The following are feeters for development of timber industry	
	patroularly gerand proces in Brazili	
	Presence of abundant labour, these are used in	
	the cutting and packing of the logs in the tornes	
	also there are some skelled below who monitor the white	
<u> </u>	processes of harvesting the timpo products. Fuch that	
	the labour affecimed also in neighbouring countries	
	tuch as Chile Argentine and Colombia in South America.	<u></u>
	Adequate capital, Brazil had invested much in the	
	timber as one of its most setter which contribute to	
	the high bross National Product and bross pometre	
	Products both the private and public sectors has invested	:
	capital by buying acres of trees, buying machines that	
	are complex than chain sugar and paying the labour	
	both skilled and welled working in the forest.	
	Good transport and communication oputem, thereis	
	Cheap transport attained through the rivers within the	
	Amoronian bosin which is used in the transporting	
	of logs to the industrial area for further processing	
	and money chaning also vanous permanent roads established	
	teaching to the interest for easy transportation of logs and labour.	
	Adequate market, Parana pine pecularly in	
	Brazil are of high demand in the world and are of	
	scarce non found in other forest reserves hence lead to	
	the many estiming of the market of world to Brazil herete	
	the manufalizing of the market of world to Brazil herself. Poranagines used for example in quality furnitures and paper.	

04	bood climater condition, Amozonian basin in	
	Brazil is blusted with Equational climate charactering	
	high rainfull and high rainfull throughout the year	
	hence lead to this trees to be prosperous and take a sturt	
	gestation period to be maken for their exploitation to	
	make the timber products.	
	High government support, Hugovernment of Brazil	
	had supported much timber industry due to it's continbution	
	to be the pirst income generator interior of foreign exchange	
	The government has conducted various measures for example	
	establishment of ministry of forests and its resources, stort	
	monitoring of the forest areas and enautment of stort	
	polities conversing forestry conservation measures	
	Role of investors, these include foreign and	
	domestic individuals who had invested in the timber industry.	
	They play role such as importing technology from abroad	
	where as it is applied in the Amazonan basins and also	
	establish vanous industries to which the logs are processed	
	and manufuctured for example British Amazonia Timber	
	Cooperation and Brazillian local timber industries.	>
·	High science and technology, Brazil has almoned	·
	technology in the production of timber products and processing	
	together with manufuckering them. This led to highnumber	,
	of industries concerned on timber manufuturing, processing	-
	for example Brazilian Tiger Industry Limited and the Rio Brother	
	Timber Industries Limited.	
	All in all timber industries has various advantages	
	since they contribute to foreign exclores and employment.	

Extract 11.1: A sample of a correct response to question 4

Furthermore, the 6,390 (22.9%) candidates who scored from 7 to 11.5 marks possessed inadequate knowledge of the content of subject matter. Other candidates provided correct introduction, managed to account for few correct factors that led to the development of timber industry in Southern Brazil with poor conclusion. Some provided irrelevant introduction and mixed correct and incorrect factors which led to the development of timber industry with poor conclusion. Examples of incorrect factors were; *creation of employment, development of industries, source of income, development of science and technology* and *source of government revenue*.

On the other hand, the 229 (0.8%) candidates who scored from 0 to 6.5 marks revealed lack of knowledge of the factors which led to the development of timber industry in the Parana Pine forest of Southern Brazil. As a result, they responded insufficiently to the question by providing few correct points. For instance, one candidate explained the effects of timber industry as; deforestation, loss of biodiversity, soil erosion, water pollution, and decline of other activities, increase of crimes, land degradation and scarcity of trees, instead of factors which led to the development of timber industry in southern Brazil. Extract 11.2 is a sample of such a weak response.

4. Timber Endustry is the manufactured of timber forest such as Parana prine forest
of timber forest such as Parana Dine forest
of Journey Diaget the causes of timber
Linduistry are avoidability of doortal mo
ilability of Willed and indiled farm
and availability of infrastructure. The follo
wing are account of factors which led
wing are amount of factors which led to the development of timber industry in
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the Parana pine forests in Southern Basil.  Nuilability of part and diseases  because pest and disease in parana pine  forests it destroy plant leaves and  course plant to be thinker plant and
doct a plant and
dead of plant took example in southern  Brazil it failed to control pest
and diseases.
Bad Climatic ordition because when
Dad Climatic arains because when
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cause out ention into the plant and
cause voit erosion into the plant and remove the upper laver of theroil which have contain will festility. So Parana pine
have contain with fertility. Jo Parana pine
toreyes are removed with high rain
Tail when was present at southern broad
Low level of education and
training. In Southern Brazil many people
are not use good planing to protect
Parana pine forest as well as to
protect them with post and discover
by used some tertilizer ruch as
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lack of examarket en both
internal and external market in to case
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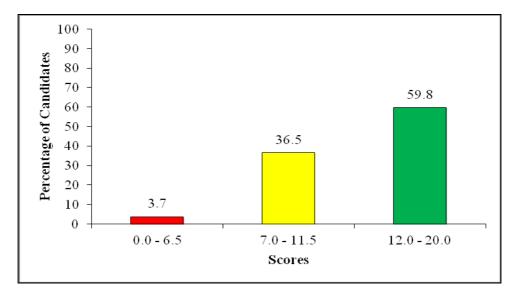
4 product a when getting from Parana Pine
Totelets such as clother it touted to
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there is not international market
foor "infrastructure; Just as tra
report and communication when in tra
nsport and communication when in training
when people are used to transfer product
I and od material as well as people
from Parana Pine forest to an industries
of to market.
Poor government Support; because
To Southern Brazil there is poor gase
coment export Such as to introduce
fund maital of to buy to testilizer
when are used to protect Parana pine  forest with pest and diseases.
torest usth Peut and diseases:
lack of enough capital because
Dans forest it tailed to controlled
due to lack of enough assistal when
is used to paid labour and to our
Afficiant fortilete and equipment when
are used to control Parana pine forest
Muailability of unfertility soil;
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and with
MAGRANA

Extract 11.2: A sample of an incorrect answer to question 4

In extract 11.2 the candidate explained factors which hinder the development of timber industry such as; availability of pests and diseases, bad climatic conditions, low level of education and training, lack of market, poor infrastructures, poor government support and lack of enough capital instead of accounting for the development of timber industry in the Parana pine forest of southern Brazil in eight reasons.

## 2.2.5 Question 5: Environmental Friendly Tourism

The question required candidates to provide eight points which justifies that, "South Africa is endowed with geographical and non-geographical factors for the development of tourism industry. The question was opted by 15,342 (35.8%) candidates of which, 9,174 (59.8%) scored from 12 to 20 marks, 5,594 (36.5%) scored from 7 to 11.5 marks and 574 (3.7%) scored from 0 to 6.5 marks. The general performance on this question was good as 14,768 (96.3%) candidates scored 7 marks and above. Figure 12 illustrates the performance on this question.



**Figure 12:** Candidates' Performance in Question 5

Further data analysis revealed that, 9,174 (59.8%) candidates who scored from 12 to 20 marks showed adequate knowledge of the geographical and non-geographical factors which led to the development of tourism industry in South Africa. Some candidates in this category managed to provide relevant introduction about tourism industry in South Africa with relevant conclusion.

One candidate for example, provided relevant introduction by defining tourism as the movement of the people away from their home to other places for interest, leisure, pleasure or studies. The candidate also explained geographical factors which led to the development of tourism industry in South Africa such as; the presence of national parks and game reserves like the Pines berg, the landscape which create beautiful scenery which attracts tourists such as; craters, mountains and escarpments, climatic condition which allows tourism activities and whale watching and penguin route. Again the candidate also explained human factors Presence of museums like the Municipal Museum, good social services, capital availability, availability of skilled people, good transport system, supply especially the Hydro-electric power, availability of power involvement of local community in wildlife conservation and cultural events like African music and festivals. Finally, the candidate managed to provide relevant conclusion on the contribution of tourism industry to the economic development of South Africa. Extract 12.1 is a sample of a correct response to this question.

Ob. Jourist Industry rajois to the move
ment of people away from home to other,
and or interest he leighte. Placere or studies.
11 can be integral of external huming. South
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lop in this vira of economy. The following and
the geographical and non geographical factor
his development of tourism.
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communication such as parliage and popular
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eple form different part of the world to reach	
in South Place.	10.
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the area of low land, Example, in timpomps	
and moumologie in which there is gentle	
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Well established. So many protes man and -	
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Some for studying. This accelerate the develop	
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GOWNING WILL POURSE CHILDREN	
and outside their country through dille-	
rent medio. so the number of punctions	
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Le one among developed countary and it have large capital to Invest in the development of	
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Tourist Industry have influence so-	
[ [CIQ] . Political good amplement lite at south, ]	
Ofrico citizen his providing employment,	
incipasing incume and structulation of eco-	
nome).	

Extract 12.1: A sample of a correct response to question 5

On the other hand, 5,594 (36.5%) the candidates who scored from 7 to 11.5 marks demonstrated inadequate knowledge of the factors for the development of tourism in South Africa. Some of the candidates in this category provided relevant introduction of tourism. They explained few correct geographical and non-geographical factors which led to the development of tourism industry in South Africa. For example, one candidate gave relevant introduction by defining tourism industry as; the industry that involve the movement of people from one place to another for leisure, pressure or study. However, the candidate mixed up correct and incorrect geographical and non-geographical factors for the development of tourism in South Africa. The candidates' strengths and weaknesses of the responses accounted for the variations in the scores.

Moreover, the 574 (3.7%) candidates who scored from 0 to 6.5 marks were not competent on the topic tested. They lacked the focus on the subject matter as the result they ended up scoring lower marks. Some of the candidates provided relevant introduction of tourism but they provided incorrect geographical and non-geographical factors for tourism development in South Africa. Examples of incorrect factors were; *relief*, *favourable rivers*, *advanced technology*, *political stability and good government support*, which were also incorrectly explained. Extract 12.2 is a sample of incorrect answer for this question.

	Market lady the bediety assertion towards
10.5	Mounts Industry is the Industry consist of tourist
<u> </u>	attraction where people troubly from their home place to tours
	St Sector for lisure, pleasure or studies. South Agrica is
	on of improved country economically, socially and politically wh
	an compaining to other countries. South Agrica Ps wellm proved in tourist sector as Pt comprises of regreational
	provid an fount stator as 11 comprises of regrational
	ista, Hospitality of the people, Good accomodation presence
	of attractive and impressive land sea pe which attract peo of hence visit South Africa. Due to it development there are
	ple hince visit South Africa. Due to it development there are
	some judors that hinder development of Tourist Industry in
	Youth Airca
	The inflowing the inctors both mographical and
	non gragaphical that hinder durlopment of touret Industry.
	Inadments publicate and adverstment, for deve
	lopment of tourst Industry adverstment and publicity of
	moded so as to attract people from chargest countries
	and places and Increase in townest condustry development
	poil to develop due to hadquak publicity
	Poor chimatic condition south Agrica has
	Last man conductive dimale to attract visitors known of
	thrent places hance limit the development of counst Industry in South Agrica the chimals is very winter him
	Industry in south Africa the chimals is very winter hen
	a do not support tourist
,	- nadovale campal tourist industry
	need, huge capetal for Investment and accomplish
-	all tompour Important activities in tourist sector hang
	Inadquala capital hander the development of tourist
	Industry as it for to meet the demand.
	Poor government support government
	a south Airia is not cooperative in Improving count
	attraction and other important positive runich will ace
	Marate development or tourest Industry in South Africa

n.e		<del></del> 1
06	Increase in poaching peaching is the cution	
	of Killing wild animals example they is to Kill depha	
	of for them to earn Ivory so it totally vidua the ann	
	mount of toun'st Attraction in South Afra hence it	
	become districult for toun's to visit such place become	·
	of killing wild animals example they ask to kill elephan of for them to earn Ivory so it totally vidua the ann mount of toun'st Attraction in South Africa hence it become difficult for toun'st to visit such place because them is shortage in tourst attraction.	
	Inadquate accomoclation one of the attractive	
	Indicator to council is accompanying south Among there	
	Indicator to kourst is accommodation in south Africa than	
	welmoning found from district countries due to pen	
	Assumption and Luxuria Crees.	,
	Charles a la four trunt Incusto, made	
	welcoming town'st from different countries due to pear accomposation and tuxury sites.  Shortage of labour town'st Industry needs po both skilled and unskilled labours all these supposit the development of town'st Industry skilled are prairily three to deal with ecosystem so their absence hinder the development.	
	development or tound Industry exclled are prainty thron	
	to deal with ecosystem so their absence binder the deve	
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	elagea love dieur nottermant municille	
	people around tourist attraction they tend to destrict low	
	people around tourist attraction they fund to destruct low	
	the tourst hance discourage development of tourist seds. So maximum cooperation facilitate local people to conserve and be hospitality to the visitors	
	So maximum constration tacilitate local people to conserve	
	and be hospitality to the visitors	,
	Conorally tourst Industry in South	
	Aprica is very harefricial to south Africa as it provide	
	Thim with invector anyther. Omployment connitionities	
	of even stimulate information of transport and comm	
	of even stimulate improvement of transportand communication in south Agrica.	

Extract 12.2: A sample of an incorrect answer to question 5

In extract 12.2 the candidate described general factors which hinder the development of tourism industry such as; *inadequate publicity and advertisement, poor climatic conditions, inadequate capital, poor government support, increase in poaching, in adequate accommodation and shortage of labour* instead of the factors which led to tourism development in South Africa.

## 2.2.6 Question 6: Sustainable Mining

The question required candidates to examine seven problems facing gold mining industry in Tanzania. The question was attempted by 39,083 (91.2%) candidates. The general performance for this question was good because 38,518 (98.6%) candidates who scored from 7 to 20 marks. Data analysis showed that 23,015 (58.9%) scored from 12 to 20 marks, 15,503 (39.7%) scored from 7 to 11.5 marks and 565 (1.4%) scored from 0 to 6.5 marks. Figure 13 illustrates performance on this question.

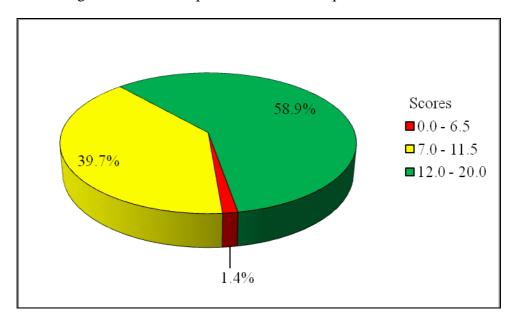


Figure 13: Candidates' performance in question 6

Further data analysis revealed that, 23,015 (58.9%) candidates who scored from 12 to 20 marks interpreted well the demands of the question and their ideas were well presented and related to the question. Most of the candidates in this category gave relevant introduction about mining in Tanzania. They correctly examined seven problems facing gold mining industry in Tanzania and provided relevant conclusion.

For example, one candidate defined mining industry as; the industry that involves the extraction of minerals from the ground where technical knowledge is highly needed as well as understanding the nature and mode of occurrence of mineral ore. In Tanzania gold mining is conducted in some parts such as Kahama, Geita and Bulyankulu. Furthermore, the candidate examined the seven problems facing mining industry in Tanzania

as; low level of education and technology, lack of capital, mining accidents, price fluctuation, environmental degradation, mineral exhaustion, unreliable power supply, political reasons and theft of minerals. The candidate also wrote a relevant conclusion by suggesting possible solutions to be taken to minimize the examined problems as: the government should invest and develop other sectors such as trade and tourism, conserving the degraded areas and explore new sites and conduct sustainable mining. Extract 13.1 is a sample of the correct response for this question.

6.	The mineral sector is the
	sector Much involves mining activities. Mining
	refer to the extraction of minerals from
	underground. In Tanzania, the mining cector has
	high contribution to the generation of income
	but not only that, also, the provision of employment
	opportunities, the growth of towns and cities,
	and the development of industries. In Tanzania,
	minerals like gold, diamond, copper, and Tanzenite
	are mined in different regions such as Mwadui

6. Geita, Morerani and many other places. Companies	
like Gara Gold Mine, Anglo-Ashanti Gold	
Mining company and Barrick Gold company	
are responsible for the extraction of minerals in	
this respective regions. How ever, the sector is	
encuntered by several Letbacks.	
The following are the cethacks	
encuntered by the mineral sector in Tanzania.	
Exhaustion of gold deposits:	
There is over exploitation of the gold deposits	
in the gold mines in Tanzania This is because.	
there are large diposity of gold in Tanzania,	
hence they are exploited by the mining companies.	
Example, the Barrick Gold Mining Company	
is the Theading produces of gold in the world	
but also the most exploitative company of	
gold resulting to exhaustion of gold diposits	_
in Gaita.	
Pour Science and technology;	
Most of the Tanzanians are poor hence, low	
advancement in suince and technology. This	
has affected the whole mineral rector especially	
the gold mineral turning. But also, the gold	
obtained is of low quality here accounting for	
its low price and continous price fluctuations in	
the world market in addition, poor reigna and	
technology discourages the rainers to carry on	
with their mining activities as hurdles developed	
Example, advanced seience and technology like the	
we of Mineral blusting is not present in language.	
Instead foor technology like the open shaft method	
is used accoming for pour quality gold minerals.	

6.	F
6.	Externa of comption; The
	prevailing comption has led to the decline
	of the mineral sector in Tanzania But also,
	increase in comption activities has created over
	exploitation of the gold mineral in Tanzania.
	leading to exhauthin of gold deposits especially
	in treita where by much gold is mined.
	Rut also, comption discourages, the government
	and the private sectors to give full support.
<u> </u>	Example, in lanzania, the Makinikia scandar
-	of 2016, had reduced the gold in the gold
ļ	deposits by 10%.
	Shortage of power; lanzania
	stylely depends on Hydro Electric Power (HEP)
	generation for the production of electricity. This
	energy course provides less required electricity
	for the production of gold. But also, the heavy
	Machines in the gold mines, require stable
	and sufficient power supply for the development
	of the gold mining industries and companies
	Example, lanzania how not yet exploited the coal
	reserves in Sungwe Kinning and Katemaka
	Mchichina which are believed to produce must efficient
	electricity in various fectors.
	Limited markets; and price
	fluctuations of gold in the world market;
	Gold from Tanzania, faces stiff competition from
	the world's famous gold producers like Mali,
	and South Africa which produce high quality
	gold (as a mineral) and gold preducts like
	grills, jewellery and many others. This has reduced
	the development of gold mining fector as the gold

6. obtained in Tanzania is of Low quality and less demanded	
Example, in 2015, the price of the gold from	-
Tanzania declined by 1011- compared to	
previous years. In addition gold exports demand	
by 20% in the same year.	
Lack of enough capital; The	
gold mining Industry Lacks enough capital	$\dashv$
for it due copment. The available capital is	
used in retaining norkers as well as purchasing	
new technology interms of machines and tools.	
The government in collaboration with the private	
fector allocate inadequate capital in the gold	
mining Industry in Tanzania resulting to is underdevelopment	
Example, only 15% of the total Gross National	
Product (GNP) is allocated to the gold mining	
Industry, which certainly it is not enough.	
Presence of poor in faitracture;	
Presence of pour infastructures like roads.	
and rail way lines has reduced the preductivity	
of the gold mining industry. Presence of poor	
quality roads has reduced the transportation	
of gold in bulk . But also, presence of poor	
feeder roads in the interior has discurreged the	
transportation of gold from the nines to the	
inclustries and from the industries to the markets.	
Example, the reads in Greta Gold nine are very pour	
Conclusively, the gold mining induly	
in lanzania, has managed to contribute to	
the economic development of Tanzania because,	
it has provided employment opportunities, the grash	
of towns and cities like Geita, the development of	
industries and the diversification of the economy.	

Extract 13.1: A sample of a correct response to question 6

Further analysis indicated that, 15,503 (39.7%) candidates who scored from 7 to 11.5 marks demonstrated inadequate knowledge about problems facing gold mining industry in Tanzania. Some candidates in this category provided relevant introduction about gold mining industry but they

examined insufficiently the problems facing gold mining in Tanzania. Some of the candidates managed to write relevant introduction, but provided few problems facing gold mining in Tanzania with irrelevant conclusion. Others mixed correct and incorrect problems facing gold mining industry in Tanzania. Examples of incorrect problems explained were; *shortage of food for labour, civil wars, land conflict and land degradation*.

Moreover, 565 (1.4%) candidates who scored from 0 to 6.5 marks lacked knowledge about gold mining in Tanzania, especially the problems facing the sector. Some of those candidates provided relevant introduction of mining but examined few problems facing gold mining industry in Tanzania with irrelevant conclusion. Examples of incorrect problems were; *eruption of diseases, civil wars among the people and invasion from foreigners*. Their marks varied because of their disparities and weaknesses of their responses. Extract 13.2 is a sample of an incorrect response from one of the candidates who answered this question.

06. Mining andustry is the andustral processes that deal with the extraction of metals from the underground of the
with the extraction of metals from the underground of the
garth's surface. Goldmining industry is the mineral extra
dry through charging up from the underground on the earths
surface. There are method used an maning andustry suchas
gren and cartmethal with their hapting method. It is outly
In that manoralisector has highantibution generation of ration
I encome to the mining anductry. The following are the proble
ms faling the gold mining and ustry as follows:
Land degradation; This as one of the problem of thogold
marging and urby through which the vol tend to down adapte
which is with in oreplace on the land. This problem of gold
maning can undergo the cort enorm that will also lead to
the lay of the soil to patienty. landdeg radation problem
of not been productive for the receivery rescultural activity
of not been productive for the necessary noscultural activity
ther taking place on the earth/ssurface
Enveronmental pollution; The & the other problem of
and more a growthy due to the engronmental rollution
during managed activities for example of the engrance
tal pollution rich as corpollution, larapollution also the
pose pollution that will cause the problem while doing the
pollution expectedly by practiting the norse pollution due
pollution especially by practiting the norse pollution due
to the one one activities.

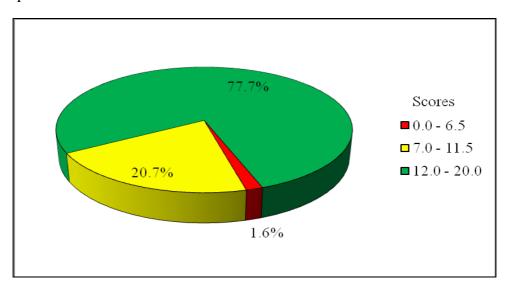
	thobal warming; this is due to the highly extent of	
	topperature ancreasing that affect the earthrogans. When	
	gold manage and urther activities through diagram up of the manerals from the prolonground stated to the temperature increase on the ground Gold many and untress when degray	
	maneral from the underground attend to the temperature	
4	fragers on the good Gold man and urbies when leaving	
6	se the manerali Estenuolise the distance damuard the outrain	
ſ,	of the manerali estanuolve the distance danuard the extracting those that may led to ancrease of temperature to the center	2
	, ,	
06-	Surface and led to the global warping on the grand surface.	
	Durthucken of proportion. The ather mobiles on coldmans	
,	orthotes late to the data in set the nonorther . The barn	
	when the cold north a children are been another near the	
	substitute led. to the dartroging of the properties. This forms when the goldnering acks there are been practised near the sumphiling of peoples lever that may destruct houses and the	
1	Dono-troe Cuch as huggers blocks That I no althoughland	
	to the colores solutions	
	Double of actions. To explan tide and ready	
	for the gold mirring endustry.  Death of organisms; In problem facing gold mining industry Is the death problem of the organisms that occur when the mirring extensives takes place. The death of organism in as known as the animal and plants species due to	
	when the reason contested when the doubt of exercise	
	and all haven as the arrange and all the according to	
	the coarbor of the head bense when are are were so	
	the goakes of the land hence when animals were in movement the tend to led up to death of the organisms	
	an the gold manging andustry.	-4.
	Delegate The transfer of the orders	
	Defforestation; The other poblem of the gold manging a defforestation, the culting down of trees where there were	
	defeateteen, the cutting down of trees where thereward	
	tree. This 95 the poblem when trees are been act off they tends start the manang activities, so that was the	
	they wrote start the maning activities, so that and the	
	problem that facing the gold men's industry, due to the	
	rector that encountries by several setback	
	themplament; The problem fucing goldmining and it	
	ny 90 une implayment apportunitives, that no labours for the extracting of manerals, Thus led to the problem facing the cold making and unsk	
	extracting of manerals, thus led to the problem taking The	
	cold maring industry due to the bothe shalled and unsk	
	Allal labournot good for the cause of unemplayment apports	
	Ritles en the enclustry.	
	(tenerally Engold mining Enducting set the motel that	
	been extracted as mineral in language that got the	
	country to be well developing the to its presence of	
	country to be well developing the to its presence of mineral suches gold, copper, ten which led in economic developments ector in the country-	
	developmentsector an the country-	
	*	

Extract 13.2: A sample incorrect answer to question 6

In extract 13.2 the candidate explained the environmental problems caused by mining industry in Tanzania such as *land degradation*, *environmental pollution*, *global warming*, *death of organisms* and *deforestation* instead of problems facing gold mining in Tanzania.

# 2.2.7 Question 7: Manufacturing Industries

This question required candidates to justify, by giving eight points the statement that "Tanzania has abundant raw cotton production, but is still lagging behind on textile industry". This question was opted by 26,780 (62.5%) candidates whereby 20,810 (77.7%) scored from 12 to 20 marks, 5,542 (20.7%) scored from 7 to 11.5 marks and 428 (1.6%) scored from 0 to 6.5 marks. The general performance on this question was good since 26,352 (98.4%) of the candidates who attempted it scored from 7 to 20 marks. Figure 14 illustrates the performance of the candidates for this question.



**Figure 14:** Candidates' Performance in Question 7

Data analysis revealed that, 20,810 (77.7%) candidates who scored 12 to 20 marks showed adequate knowledge about textile industries in Tanzania, specifically on the reasons for lagging behind. Most of the candidates in this category gave relevant introduction and explained eight reasons to justify lagging behind of textile industry in Tanzania, despite of abundant raw cotton production.

One candidate for instance, provided relevant introduction by defining the textile industry as: the industry which deals with the manufacturing of clothes from cotton, wood, silk, rayon or linen. The major producing cotton regions in Tanzania are Shinyanga, Mwanza and Tabora and most of the earlier textile industries in Tanzania are Mwanza textile (Mwatex), Kilimanjaro textile (Kilitex) and Urafiki textile industry which is located in Dar es Salaam. The candidate also provided the correct reasons for the industries to lag behind such as; high cost of production, installation and running industries, poor infrastructure network, poor market for textile products, low price of cotton from farmers, low level of science and technology, low quality of cotton produced by farmers, unreliable power supply for running industries, poor capital availability from investors and insufficient management of textile. Furthermore, the candidate concluded by suggesting the possible solutions to the challenges facing textile industry in Tanzania. Extract 14.1 is a sample of a correct answer for this question.

		<del></del> -
7.	Textile Industry refers to the indust-	
	of which manufactures clothings and other cowing materials	
	by the use of raw moderals such as cotton, liven and wood.	
	Textile Industries mostly depend an cotton to manufacture its	
	products. Example of products from the Textile industries are	
	clothes, carters and also carpets. In Tanzania cotton is most	
	by planted in the Northern part like in Chinyanga and Musura.	
-	Example of textile industries in Janzania are MWATEX,	
	MOROTEX and also A-Z Textile Industry in Arusha, Mwarea.	
	and Norsporo respectively. Tanzania has abundant raw	
	cotton production but still lagging behind on Textile Industry due	
	to some challenges Facino textile industries in our country.	
	The Following are the challenges that face Textile Industry in	
	Tanzania;	
	Pour means of transport and communi-	
	cation. Our country lacks proper transport facilities such	
	as good and passable tarmac roads, railway lines and also	
ļ	the air transport is still poor. This problem limits the transport-	
	ation of cotton as a raw material from the farm easily to	
	the Textile Industry and also from the Industry to the mark	
	et. Example some of the cotton plantations are found at inter-	
	ior parts of Shinyanga region making it had for mobility	
	to take place to the Industries.	

	Shiff competition from other Textile	
	Industries abroad. Our Textile industries experience a hune	
	and stiff competition from the reighbouring and even abroad	
	coventries. This is because products from abroad are belie-	
	ved by most of the Tanzanians to be of a better quality	
	compared to those produced by our own textile industries.	
	This may discourage production to our textile industries	
	For they lack market. Example the Tanzania textile industry	
	suits are not of good quality compared to those from about.	
Cent.7.	how level of technology. The techno-	
	lapy which is used in the Textile Industries in Tarrania is	
	still not well advanced. This leads to the production of	
	low quality products and also the quantity will be low -	_
	Frample the use of advanced technology such as roborts who	
	encure efficiency and accuracy and also computers is still	
	not employed or transfered to our country thus cousing under	
	utilization:	1
	Lack of skilled manpower. The labor	
	evers who are employed in the Textele industries in Tansa-	
	nia most of them are unskilled who work just by experience	
	and not by profession. This leads to non-existence of innovat	
	ions in the production or manufacturing activity and therefore	
	no contribution made to the industry rather than performing	
	the same activity through out.	
	Insufficient Capital to further up	
	the industries. The textile industries in Tanzania lack eno-	
	eigh capital which can be used to expand their manufactur	
	ring activities like employing more skilled labour and also	
	purchase of heavy and more powerful machines which can	
	to helpful in the production of quality products and in a large	
	quartity.	
	back of full support from the govern-	
	ment. The powerment of Tanzania Fails to provide Ful	_
	support to the textile industries like provision of incentives	
	and also loans which they can use to expand their industrial	
	activities. This makes it hard for the Textile industries in	
	Tanzania to develop despite the aburdant raw cotton produ-	
	ction prosent.	- ; -
	Frency and Power problem in Tanzania.	
	In Tarrania there is a very big publin of supply and assur-	
	ance of energy and power especially Electricity energy.	

(port 7.	The Textile industries depend on electricity energy in order to	
	run up the machines in the industries but due to its instabi-	
	Lity character that can not be predicted, it causes the bugging	
	down of the development in Textile Industry in Eanzania.	
	Distant boxalization of the Textile Indust-	
	my. Most of the textile industries in Tanzania are located at	
	come how for distance from the raw cotton production sites. For	
	Example A-2 Industry in Anusha depends on the cotton From	
<u> </u>	Mwanza and Shinyanga region for their manufacture. This	
	problem leads to the increase in cost of production due to the	
	fact that the industries have to incur high cost of transportation	
	and also bear ricks in transporting the cotton.	
	In nut shall; despite the abundant raw	
	cotton production in Tanzania the Textile Industry has to be well	
	managed, organized and foreseen in order to develop. The challe-	
	noes that face the Textile Industries in Toursaria can be more und	
	by Improving the transport and communication facilities in our	
	country like roads and railway lives, encourage the transfer of	
	terbrology to our country and also to ensure the reliable	
	supply of energy and power services by the monopoly TANESCO.	
	(1) (1) (1)	<u>-</u>

Extract 14.1: A sample of a correct response to question 7

Further analysis of the responses showed that, the 5,542 (20.7%) candidates who scored from 7 to 11.5 marks portrayed inadequate knowledge about manufacturing industries specifically on the factors that hinder the development of textile industries in Tanzania. Some candidates provided relevant introduction of textile industries. They analysed inadequately the factors which led to the failure of textile industries and they provided irrelevant conclusion. Others managed to give correct introduction of textile industries but they gave few reasons for the lagging behind of textile industries in Tanzania with relevant conclusion. For instance, one candidate defined incorrectly textile industry as: *industry which deals with the transferring and manufacturing of goods and services within the industry, this industry may produce the semi-finished goods or finished goods which help to meet the demand of the consumers.* In addition, the candidate mixed up correct and incorrect points.

On the other hand, the 428 (1.6%) candidates who scored from 0 to 65 marks indicated lack of knowledge about manufacturing industry in Tanzania specifically problems facing textile industries. Some candidates failed to provide relevant introduction. They mixed up correct and incorrect points and ended up with irrelevant conclusion. One candidate for example, provided irrelevant introduction and explained the importance of textile industries such as; *employment creation, provision of support to other sectors, leads to the improvement of social services, leads to improvement of infrastructures, improves the living standard of the people, increases national income, and facilitates the reduction of crimes in the state;* instead of factors which hinder the development of textile industries. The variation in their scores was a result of weaknesses and strengths of their responses. Extract 14.2 is a sample of incorrect answers for question 7.

7 Textile Industry: It the Manufecturing Industry conce
rning with the production of dother where cotten
to the Main source of developing this industry, the
Industry in Tanzania is located it Dar as calcam
Although Tanzania abundant raw Naterial production
but the industry darreloging due to following marcon.
Availability of labour the availability of
labour to one contributed to the development of
devolopment of textile industry in Tanzania because
In the Processing Process requires laborer for
facilitating the activities, honce development of this
Muchy
Availabelety of capital the availability of
capital is only one the factor faultake the
dovo lopment of the Industry He because the
capital used for buying Processing Mashine,
supplies of Goods through the quality Machine, co
the Availability of Hache capital influence the Industry
dovelopment
Availability of Market: the aerulability of
Market oncourages the development of textile
Industry because the Coord supplied are selling into
people euch as dother Made from cotton trac high
quantity so due to this lead to development of
Mariet both Incide and outside the country hence
the Market Facultate the development of textile industry.

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Influencing the development of textile tradity into
influencing the development of textile industry into
because the power supply including the Machine activities such as electricity also center supply
activities such as electricity also center supply
Influencing the doudopment of textile Industry
although cotton Onduran is lawar
78. Availability of Infractructures ! Infractructures Include
I tanport and communication system such as road
railway this facilitates the development of textile
transfor because thes the transport system faultates
the development of the industry It's because
thus enables to transports Manujachund corods From the
Industry to the Nacket also row Naterials From
ushers they are Produced to the Industry.
Government policy: Also the Government policy
has contributed to the devolopment of textule industry
11. H. J. U. M. Santa A. J. H. Command
It through this policies done by the government
such as Tanzania Industrialization? stimulate the
development of the textile loducting which are pulled
by late Dr. John pombe Naguenti in five years through
Te the development of the thir Textile Industry:
Availability of Modern Machine: the availabili
ty of Modern Machine contributed to the developme
pt of textile industry in industries although we
have law wience and technology but there modern
toole which used in processing the raw Materials
lead to the developing of the Industry.
Therefore: the Runeral sector has the contribu
tron to the consort on a national bosons again them
the there is effects from Gold Mining in Tansania
and as Course model association has see facilities
ty the land exhaution coil amount att.
THE LAND EXPLAINED CONT. MICHON STEELS

Extract 14.2 is a sample of an incorrect response to question 7

In extract 14.2, the candidate explained the factors for the development of any industry such as availability of labour, availability of capital, availability of market, availability of power supply, availability of infrastructures, government policy and availability of modern machines; instead of the reasons to justify that textile industry in Tanzania is lagging behind despite of abundant cotton production.

#### 3.0 PERFORMANCE OF CANDIDATES IN EACH TOPIC

The analysis of candidates' performance in Paper One shows that, candidates had good performance in 6 topics out of 7 topics examined because they scored 35 percent and above. These topics are: *Study of Soils* (96.5%), *Application of Statistics in Geography* (93.8%), *Space Dynamics* (92.1%), *Water Masses* (81.5%), *The Dynamic Earth and Consequences* (81.3%) and *Topographical Map Interpretation* (79.1%). However, the candidates had average perfomance of 55.6 percent in the topic of *Photograph Interpretation*. Moreover, in Paper Two, the candidates had good performance in all the 6 topics examined because they scored 35 percent and above. These topics are: *Timber Industry* (99.2%), *Sustainable Mining* (98.6%), *Manufacturing Industries* (98.4%), *Environmental Friendly Tourism* (96.3%), *Livestock Keeping* (96.2%) and *Population and Development* (95.3%).

The candidates performed well in these topics because of their ability to follow the required paper instructions, identify the demands of the questions and good mastery of the subject matter. Moreover, most of those candidates demonstrated good proficiency of English language in answering questions that required explanations, as they wrote grammatical correct and meaningful sentences with logical arrangement of essays.

The reasons which made the candidates to get average performance in the topic of *Topographical Map Interpretation* were; providing fewer points than instructed, mentioning correct points without satisfactory explanations, mixing up correct with incorrect concepts and inability of the candidates to extract information from photograph and linking the extracted information with real life situation.

The comparison of candidates' performance between 2020 and 2021 shows that, in 2020 the performance was good in 10 topics, average in 1 topic and weak in 2 topics while, in 2021 the performance was good in 12 topics and average in 1 topic. Therefore, the performance of the candidates in 113 Geography Advanced Certificate of Secondary Education Examination (ACSEE) 2021 topic wise has increased. The candidates' performance has not changed in *Sustainable Mining, Manufacturing Industries, Study of Soils, Environmental Friendly Tourism, Population and Development, Space Dynamics and Water Masses* topics which were good. In addition,

there was an increase of performance of the topic of *Topographic Map Interpretation* which had average performance in 2020 to good performance in 2021. The comparison of the analysis of the candidates' performance in each topic for 2020 and 2021 is summarized in the appendix. The green colour indicates topics with good performance, yellow colour indicates topics with average performance and red colour indicates topics with weak performance.

### 4.0 CONCLUSION

The general performance of the candidates in Geography subject for the Advanced Certificate of Secondary Education Examination (ACSEE) 2021 was 85.3 percent which is good. The analysis shows that the candidates' good performance was a result of their ability to identify the demands of the question, their knowledge and skills on the subject matter, their competence in English language and possession of calculating skills. Thus, the candidates with weak performance revealed lack of these skills.

### 5.0 RECOMMENDATIONS

Basing on the observations made through Candidate's Item Response Analysis (CIRA), the following recommendations are put forward in order to improve the performance of upcoming candidates in this subject:

- (a) Classroom teaching and learning processes should be endowed with practical activities. It is always believed that a student learns better if the whole process is supported by concrete materials that give them the experience and first-hand information. This might help students to gain competence in calculating, measuring and analysis in different practical activities.
- (b) Teachers should guide the students in the correct ways of reading and interpreting different kinds of photographs.
- (c) Teachers should guide the students in extracting relevant information from different kinds of photographs and link the extracted information to real life situation/phenomena on the ground.

 ${\it Appendix}$  Comparison of candidates' Performance by Topic in 2020 and 2021 Years

S/N	Topic	2020 2021					
		Number of questions per topic	Percentage of candidates who scored an average of 35 Percent or more	Remarks	Number of questions per topic	Percentage of candidates who scored an average of 35 Percent or	Remarks
1.	Timber Industry				1	99.2	Good
2.	Sustainable Mining	1	96.2	Good	1	98.6	Good
3.	Manufacturing Industries	1	90.7	Good	1	98.4	Good
4.	Study of Soils	1	84.8	Good	1	96.5	Good
5.	Environmental Friendly Tourism	1	92.3	Good	1	96.3	Good
6.	Livestock Keeping				1	96.2	Good
7.	Population and Development	2	66.5	Good	2	95.3	Good
8.	Application of Statistics in Geography				1	93.8	Good
9.	Space Dynamics	1	66.1	Good	1	92.1	Good
10.	Water Masses	1	95.8	Good	1	81.5	Good
11.	The Dynamic Earth and Consequences				1	81.3	Good
12.	Topographical Map Interpretation	1	54.2	Avera ge	1	79.1	Good

S/N	Topic	2020			2021		
		Number of questions per topic	Percentage of candidates who scored an average of 35 Percent or more	Remarks	Number of questions per topic	Percentage of candidates who scored an average of 35 Percent or	Remarks
13.	Photograph Interpretation				1	55.6	Avera ge
14.	Position behaviour and structure of the Earth	1	96.3	Good			
15.	Transport and communication	1	81.8	Good			
16.	Sustainable Use of Fuel And Power	1	68.6	Good			
17.	Field Research Strategies	1	34.5	Weak			
18.	Simple Survey and Map Making	1	19.7	weak			

