

### CANDIDATES' ITEMS RESPONSE ANALYSIS REPORT ON THE CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (CSEE) 2020

**GEOGRAPHY** 



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



# CANDIDATES' ITEM RESPONSE ANALYSIS REPORT ON THE CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (CSEE) 2020

**013 GEOGRAPHY** 

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#### **FOREWORD**

The report on the Candidates' Item Response Analysis on the 2020 Certificate of Secondary Education Examination (CSEE) 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, policy makers and the general public on the performance of candidates, and the extent to which the instructional goals and objectives of the subject were met.

The CSEE marks the end of the four years of the ordinary level of secondary education. It is a summative evaluation which shows the general effectiveness of the education system. Principally, candidates' responses to the examination questions indicate what the education system was able/ unable to offer to the candidates in the four years of the Certificate of Secondary Education.

In this report, the analysis of each question has been done, and different categories of information of this analysis have been shown by figures and graphs. Factors that have contributed to the candidates' ability to answer the examination questions correctly and score high marks include: their ability to understand the demands of the questions, having basic knowledge of the subject matter, possessing skills in computing and drawing, good mastery of English language. The candidates who scored low marks lacked such qualities.

It is the belief of the National Examinations Council of Tanzania that this report shall serve as a basis for enabling all educational stakeholders to take proper measures in order to improve the candidates' performance in this subject.

Finally, the National Examinations Council of Tanzania is grateful to all Examination Officers and other stakeholders who provided valuable support in the preparation of this report.

Dr. Charles E. Msonde

**EXECUTIVE SECRETARY** 

#### 1.0 INTRODUCTION

This report presents the analysis of the candidates' items and responses on the Certificate of Secondary Education Examination (CSEE) in Geography subject for the year 2020. In this report, performance of the candidates is divided into three categories; good, average and poor. It is good if the candidates' scores range from 65 to 100 percent, average from 30 to 64 and poor from 0 to 29 percent. These categories are indicated in the figures and tables by colours such as; green for good, yellow for average and red for poor.

The Geography examination paper had three sections; A, B and C. Sections A and B contained compulsory questions. Section A consisted of two questions which had 15 marks in total. Question 1 involved ten multiple choice items while, question 2 consisted of five matching items. Question 1 carried 10 marks while question 2 had 5 marks. Section B consisted of five short answer questions (3, 4, 5, 6 and 7) of which each carried 11 marks making a total of 55 marks. Section C had three optional questions and the candidates were required to answer any two. Each question carried 15 marks making total of 30 marks.

A total of 436,523 candidates sat for the CSEE 2020 in Geography subject, out of which, 234,217 (53.90%) candidates passed while, 200,299 (46.10%) failed. Generally, the performance in 2020 improved by 0.75 percent compared to that of 2019, in which, 53.15 percent of the candidates passed and 46.85 percent failed.

This report provides an analysis on the performance of the candidates in each question. It shows what the candidates were required to do as well as the strengths and weaknesses of their responses. Samples of the candidates' answers are shown to illustrate the facts. It is expected that the report will be useful to all educational stakeholders and will enable teachers and students to improve the teaching and learning process in Geography subject.

### 2.0 ANALYSIS OF CANDIDATES' PERFORMANCE FOR EACH QUESTION

#### 2.1 SECTION A: OBJECTIVE QUESTIONS

This section had two compulsory questions whereby question 1 consisted of 10 multiple choice items carrying a total of 10 marks and question 2 consisted of 5 matching items with a total of 5 marks. The total marks for the section were 15.

#### 2.1.1 Question 1: Multiple Choice Items

Multiple choice items tested the candidates' knowledge and skills on the topics of; The Solar System, Structure of the Earth, Soil, Forces that affect the Earth, Environmental Issues and Management, Sustainable use of Power and Energy Resources, Climate and Natural Regions, Sustainable Mining and Weather. These topics covered the form one, two, three and four topics from the syllabus. The candidates were given five alternatives of which they were supposed to choose one correct alternative.

This question was attempted by 436,523 (99.9%) candidates, of which 191,818 (44%) scored from 0 to 2 marks, 213,812 (49%) scored from 3 to 6 marks and 30,592 (7%) scored from 7 to 10 marks. The general performance on this question was average, as 56 percent of the candidates scored 3 marks and above. This performance indicates that the candidates had sufficient knowledge and skills on the topics measured.

Item (i) demanded the candidates to explain why the Sun appears larger than other stars that are seen at night. The candidates who chose the correct answer 'B' the Sun is closer to the Earth than the stars had sufficient knowledge and skills on the topic of The Solar System. They were able to state the dimension of the Sun in relation to other space bodies. The candidates who opted for 'A' Starlight bends as it passes planets, 'C' The Earth's atmosphere filter out light from other stars, lacked knowledge of the solar system as they failed to realize that the Sun is at the center of our solar system. Those who selected option 'D' Daylight brightens the Sun making it appear larger may be they were interested with the size rather

than giving a reason and those who chose destructor 'E' *The capacity of our eyes does not view far during the night,* misconceived the question.

In item (ii), the candidates were required to identify the layer of the Earth which forms the ocean floor. The candidates who chose correct answer 'C' Sima had adequate knowledge of the Earth's crust which consists of two layers, the Sial and Sima. On the other hand, those who chose option 'B' Sial failed to differentiate between Sima and Sial that both are layers of Earth's crust but, Sial is the upper layer of the crust and composed of Granite rocks that form the continent while Sima is the layer below the Sial and composed of Silica and Aluminum and forms the ocean floor. Moreover, candidates who opted for 'A' Mantle, 'D' Core and 'E' Crust failed to understand that all those options are the concentric zones of the Earth.

Item (iii) required the candidates to identify the general term for characteristics of soil. The candidates who chose the correct answer 'C' soil properties had adequate knowledge of soil composition and properties. The candidates who opted for destructor 'A' soil profile had lacked knowledge of the subject matter because soil profile is the arrangement of soil layers. Those who opted for destructors 'B' soil particles; 'D' soil fertility and 'E' soil formation had general knowledge about soil, but were not able to understand the general characteristics of it.

Item (iv) required the candidates to identify the name of the bag which was being pulled by the river in relation to the river action. The candidates who chose the correct answer 'C' river load had sufficient knowledge of the action of the river. Those who opted for alternatives 'A' river erosion and 'B' transportation failed to realize that these are the actions of the river and not the materials carried by the river. Those who opted for response 'D' river meander and 'E' river bed were not aware that these are the features formed due to river action.

In item (v), the candidates were required to identify the factor which is not the cause of desertification in Tanzania. The candidates who chose the correct answer 'D' *overfishing* were aware of the major environmental problems thus, they knew the factors that cause desertification in Tanzania. Those who opted for 'A' *deforestation*, 'C' *shifting cultivation*, 'E' *bush* 

*fire* and 'B' *urban growth* were not knowledgeable of the factors which cause desertification in Tanzania hence they seemed to guess the responses.

Item (vi) required the candidates to identify the raw materials which would be the best on project in developing energy from the remains of living things. The candidates who chose the correct answer 'D' *coal* were aware that coal is a source of energy that occurs in sedimentary rock layers as a result of remains of organisms. On the other hand, those who chose incorrect answer 'A' *running water* lacked knowledge of the subject matter because running water is not energy from the remains of living organisms. Those who opted for 'C' *solar energy* had also lacked knowledge of the subject matter as *solar energy is the energy which is generated from the Sun*. Moreover, candidates who opted for 'B' *Petroleum* and 'E' *natural gas* failed to realize that Petroleum and naturals gas are formed due to the fossilization of plants and animals, but they are not economically friendly compared to coals when launching a project.

In item (vii) the candidates were required to name the general term of the regions provided. The statement given was; 'the Amazon and Congo basins are regions characterized with the same geographical background to human activities, climate, vegetation and relief.' The candidates who chose the correct answer 'A' natural region had knowledge of the major natural regions found on the Earth's surface with their climate type and characteristics. They were able to identify natural regions as a part of the Earth's surface with relatively similar climate, vegetation and human activities. The analysis shows that candidates who opted for alternative 'B' natural resources failed to relate the descriptions with the correct concepts. The candidates who chose alternatives 'C' natural vegetation and 'E' natural climate had inadequate knowledge of the subject matter. They thought that the vegetation of a region is closely related to the climate of the region. Those who chose 'D' natural landscape lacked knowledge of the concept of climatic regions and their characteristics as natural landscape refer to the natural features which are formed as a result of various forces within and on the surface such as; mountains, basins, plateaus, valleys, hills etc.

Items (viii) demanded the candidates to select three types of non-metallic minerals from the alternatives given. The candidates who chose correct answer 'C' oil, diamond and coal had knowledge about minerals. They were able to identify the types of minerals found in the world which can be grouped into two major types, non-metallic and metallic minerals. Furthermore, the candidates who opted for other destructors 'A' coal, gold and copper, 'B' natural gas, silver and diamond, 'D' copper, silver, oil and 'E' gold, natural gas and diamond were not able to differentiate between non-metallic and metallic minerals. They failed to realize that minerals are naturally occurring valuable and useful organic substances which can be identified by their characteristics, chemical composition and physical properties; so they ended up guessing the responses.

Item (ix) required the candidates to identify the temperature which would be experienced by the tourists in Manyara 1500m above the sea level, if the temperature of Zanzibar at sea level is 32°C. The candidates who chose the correct answer 'A'  $23^{0}C$  had adequate knowledge of calculating temperature of a place in relation to the change of altitude. The candidates who opted for incorrect answer 'B'  $9^0$  C were able to calculate the difference in temperature between Zanzibar and Manyara as stated if 0.6°C of temperature decreases with altitude of 100m. Yet they failed to find the temperature of Manyara since Manyara is at higher altitude than Zanzibar, the temperature of Manyara would be lower than that of Zanzibar. Those who opted for 'D'  $0.6^{\circ}$  C were aware that the temperature decrease with increase in altitude at the rate of 0.6° C for every 100 meters. However, they failed to calculate the temperature of a place in relation to altitude by following the procedures of finding and calculating the difference in Temperature between Zanzibar and Manyara. The candidates who opted for the incorrect answers 'C' 190 C and 'E' 170 C lacked knowledge of applying mathematical skills on calculating the difference in temperature according to altitude between Zanzibar and Manyara.

In item (x) the candidates were demanded to identify the result which occurs when the Moon's shadow is casted over the Earth. The correct answer was 'A' solar eclipse. The candidates who chose this answer revealed to have adequate knowledge of the effects of movement of the Earth around the Sun following its orbit, especially on the eclipse of the Sun. Those who chose destructor 'B' lunar eclipse seemed to have knowledge of the effects of Earth's revolution on the concept of eclipse, but they failed to differentiate the result which occurs when the Earth passes

between the Moon and the Sun and when the Moon passes between the Sun and the Earth. Those who opted for 'C' aphelion had insufficient knowledge and skills on the concept of solar system. They failed to understand that Aphelion refers to the point in the orbit of a planet, asteroid or comet which is the furthest from the Sun. The candidates who chose 'D' summer solstice lacked knowledge of the subject matter since solstice means the period of the year in which the Sun is vertically overhead. Those who opted for destructor 'E' Equinoxes failed to realize that this implies an equal length of day and night at all latitudes.

#### 2.1.2 Question 2: Matching Items

The question consisted of five items where by each item weighed 01 mark, making a total of 05 marks. The items were taken from agricultural concepts and it required the candidates to match the descriptions of types of agriculture in **List A** with the correct type of agriculture from **List B** by writing a letter of the correct answer beside the item number in the answer booklet.

LIST A	LIST B
(i) Crop cultivation practiced in a small	A. Agriculture
plot of land.	B. Large scale agriculture
(ii) System of agriculture in which land	C. Subsistence agriculture
is cultivated and left for some years	D. Sedentary agriculture
to improve its fertility.	E. Shifting cultivation
(iii) Traditional system of crop	F. Monoculture
cultivation in which farmers move to	G. Bush fallowing
new farm land when the yield are	H. Dairy farming
low.	
(iv) Activity of growing crops and	
rearing livestock.	
(v) System of agriculture in which farms	
are owned by Government, Co-	
operatives and Private Companies.	

The question was attempted by 435,775 (99.8%) candidates out of which 180,850 (41.5%) scored from 0 to 1 mark, 185,590 (42.6%) scored from 1.5 to 3 marks and 69,335 (15.9%) scored from 3.5 to 5 marks. The general

performance on this question was average as 58.5 percent of the candidates scored 1.5 marks and above.

Item (i) required the candidates to match the descriptions of crop cultivation practiced in a small plot of land with the correct concept. The candidates who managed to choose the correct answer 'C' *subsistence agriculture* had knowledge of small scale agriculture and how it is practiced. The candidates who opted for incorrect options had inadequate knowledge of agriculture and the related concepts.

In item (ii) the candidates were demanded to identify the system of agriculture in which land is cultivated and left for some years to improve fertility. The candidates who chose the correct answer 'G' bush fallowing had knowledge of diverse systems of agriculture practiced in an area. The candidates who chose incorrect response 'E' shifting cultivation related the description with bush fallowing because both are the methods of crop cultivation in small scale agriculture. Though in shifting cultivation farmers tend to move from one area to another searching for fertile land. Other related choices such as 'A' agriculture, 'B' large scale agriculture, 'C' subsistence agriculture, 'D' sedentary agriculture, 'F' monoculture and 'H' dairy farming were chosen by the candidates who failed to relate the concept with the correct description due to insufficient knowledge of the subject matter.

Item (iii) demanded the candidates to name the traditional system of crop cultivation in which farmers move to new farm land when the yields are low. The correct response 'E' *shifting cultivation* was chosen by the candidates who had adequate knowledge of the concept of small scale agriculture which is conducted by using the method of shifting cultivation. The candidates who chose incorrect responses failed to distinguish the system of agriculture and methods used. Moreover, the candidates who had insufficient knowledge ended up guessing the answers.

Item (iv) required the candidates to identify the practice which deals with growing crops and rearing livestock. Some of the candidates who managed to match the correct option 'A' *agriculture* had relevant knowledge of diverse types of agriculture. However, others were attracted by the destructors 'B' *large scale agriculture*, 'C' *subsistence agriculture* and 'D'

sedentary agriculture. These candidates had insufficient knowledge hence they failed to differentiate these types of agriculture. Furthermore, the candidates who chose destructors 'E' monoculture, 'G' bush fallowing and 'H' dairy farming were not knowledgeable of the types of agriculture and their characteristics.

In item (v) the candidates were required to identify the system of agriculture in which farms are owned by the Government, Co-operative and Private Companies. The correct response 'B' large scale agriculture was matched correctly by the candidates who had adequate knowledge of the type of agriculture which is influenced by strong bases of financial resources, infrastructure, technology and markets. However, those who chose 'C' subsistence agriculture failed to differentiate between large scale agriculture and subsistence agriculture. Small scale agriculture refers to a system of agriculture in which crop cultivation is practiced in a small area, while large scale agriculture is practiced in large estates or farms. However, due to little knowledge of the types of agriculture, some candidates chose unrelated responses.

#### 2.2 SECTION B: SHORT ANSWER QUESTIONS

#### 2.2.1 Question 3: Map Reading and Map Interpretation

The candidates were required to study the map extract of Sikonge (sheet 137/2) and then answer the given questions.

The question had five parts (a), (b), (c), (d) and (e). The candidates were required to (a) calculate the total distance covered in kilometers if the car was travelling from Sikonge town (grid reference 732787) to Iyombakuzoa church (grid reference 755765) and turns back to Sikonge, (b) describe the nature of relief in the mapped area, (c) calculate the gradient from grid reference 835846 to 782786, (d) find the highest point on the given map and give its grid references and direction, and (e) state the general direction of slope of the land in the mapped area. The total marks allocated for this question were 11.

The question was attempted by 386,765 (88.6%) candidates. About 372,989 (96.4%) scored from 0 to 3 marks, 13,487 (3.5%) scored from 3.5 to 7 marks and 289 (0.1%) scored from 7.5 to 11 marks. The performance in

this question was generally poor because 88.6 percent of the candidates scored below average.

Table 1.1: Number and percentage of candidates in each group of scores

Scores	0.0 - 3.0	3.5 - 7.0	7.5 - 11.0
No. of Candidates	372,989	13,487	289
% of Candidates	96.4	3.5	0.1

The analysis shows that 372,989 (96.4%) candidates who scored from 0 to 3 marks lacked adequate knowledge and skills on map reading and interpretation.

In part (a), some candidates were not able to calculate the total distance covered from Sikonge to Iyombakuzoa church in kilometers if the car turns back to Sikonge town. They lacked knowledge and skills of locating positions on a map by using grid references. Also this part was skipped by some of the candidates because it required application of mathematical skills. For example, one candidate wrote 14 cm on the map and 3.2 km on the ground. Another candidate wrote 3.1 cm on the map which was the correct distance from Sikonge to Iyombakuzoa church, but failed to multiply it by two as the question demanded so as to get 6.2 cm. Moreover, some of the candidates were able to measure distance from Sikonge town to Iyombakuzoa church correctly, but they failed to calculate the distance due to incompetence in mathematical skills. Furthermore, some candidates were able to calculate the distance, but failed to convert the answer into actual ground distance. For example, one candidate wrote the correct distance as 6.2 cm on the map, but failed to convert it into ground distance thus she/he wrote the actual distance on the ground is 6.2 km. Another candidate wrote incorrect distance as 6.7 cm but managed to write the correct map scale as 1 cm = 0.5 km which made him/her to score few marks.

In part (b), some candidates failed to provide the correct answer on the nature of relief in the mapped area due to poor knowledge of representing features on the map. For example, one candidate mentioned the type of natural vegetation such as; *woodland*, *scattered tree* and *shrubs*. Another candidate wrote the methods of showing relief of an area as; *contour lines* 

and *spot height*. However, few candidates wrote few correct answers. For example, one candidate wrote *there are highlands due to the presence of hills*, while another candidate wrote *there are lowlands covered by rivers*. The correct answer was *highland plateau with altitude ranging between 1140m and 1300m (grid reference 836845) above the sea level*.

In part (c), most candidates were not able to calculate the gradient from grid reference 835846 to 782786; gradient is a slope or steepness of the ground and it is expressed as a ratio between it's vertical interval and horizontal equivalent. This part was skipped by some of the candidates, and those who attempted it provided incorrect responses due to poor application of mathematical skills. Others wrote correct formula but failed to follow correct procedures of calculating the gradient. For example, one candidate wrote correct formula such as;

Gradient = <u>Difference in height</u> Horizontal distance

However, the candidate failed to follow correct procedures to find the gradient which led him/her to end up with wrong answer. Another candidate used incorrect formula and procedures of calculating gradient. For example, one candidate wrote incorrect formula as;

Gradient = <u>Vertical distance</u> Horizontal distance

The correct procedure was Gradient= $\frac{\text{Vertical increase}}{\text{Horizontal increse}}$ . Hence, the correct gradient was 1 in 57.

In part (d), majority of the candidates failed to find the highest point on the given map, its grid reference and direction due to inadequate knowledge and skills of locating position on a map by using grid reference and compass bearing. For example, one candidate wrote *there is highest contour* without providing its actual height, incorrect grid reference 833845 and direction *East*. Another candidate wrote the correct highest point as 1300m, but failed to give grid references and its direction instead of 1300m which was the correct answer.

In part (e), some candidates failed to state the general direction of slope of the land in the mapped area. For example, one candidate misinterpreted the question by writing responses like *there are steep slope and gentle slope* while, others were able to state the general direction of the slope. For example, one candidate provided correct response as *there is highland area*. Extract 3.1 is a sample of incorrect responses to question 3.

7	(a)	
3	John .	
	Data.	
	Distance from grid refrozence (132787) to (755765)	
	y = 7 cm	
	Mapa sacle = 1:50,000	
	which.	
	1 Km: 1001000 em	
	9C = 50,000 cm	
	1001 000 x 9c = 50,000 cm x 1 km	
	100,000cm 100,000 cm	
	There fore.	
	1 cm =, 4 km	
	X '9	
	(b) The nature of the relief in mapped area is	
	Forestry area	
	- Baccuse of how a large area covered with the thick	
	(L) N 264	
	cd) The hier point is 1126	
	and its april refference is 316864	
	(e) relief	

Extract 3.1: A sample of incorrect answer for question 3.

In Extract 3.1, the candidate obtained 7cm as a distance in km from Sikonge town to Iyombakuzoa church, instead of a correct distance of 6.2 cm in part (a). In part (b), he/she provided vegetation type (Forestry area) instead of the nature of the relief of the area which is highland plateau with

altitude ranging between 1140m and 1300m (grid reference 836845) above the sea level. In part (c), the candidate wrote 864 as the gradient from grid reference 835846 to 782786 instead of calculating the gradient by using the formula:

Gradient = Vertical increase hence, the correct gradient was 1 in 57.

In part (d) the candidate wrote 1186 as the approximate height of the highest point, instead of finding the approximate height of the highest point in the topographical map given which was 1300m and finally in part (e), the candidate wrote the word *relief* instead of stating the approximate height of the highest point which was 1300m.

Furthermore, the analysis shows that the 13,487 (3.5%) candidates who scored from 3.5 to 7 marks showed moderate skills and failed to respond correctly to some parts of the questions due to inadequate knowledge and skills on the subject matter.

On the other hand, 289 (01%) candidates who scored from 7.5 to 11 marks had adequate knowledge and skills on the concept of map reading and interpretation. However, variations of their scores were determined by the strengths of their responses.

The analysis further shows that in part (a), the candidates were able to calculate the total distance covered in km from Sikonge to Iyombakuzoa if the car turns back to Sikonge town. They managed to identify the two points to be measured, that is Sikonge town (grid reference 732787) and Iyombakuzoa church (grid reference 755765). They used the correct method of measuring distances on a map and they got 6.2 cm. They managed to convert the map distance obtained into ground distance (km) by using the scale of the map given as follows;

Map scale: 1cm = 0.5 kmMap scale = 6.2cmDistance in  $km = \underline{6.2 \text{ cm } x \text{ } 0.5 \text{ km}} = \underline{3.1 \text{ km}}$ 1cm

They wrote the total distance 3.1 km x = 6.2 km.

In part (b), the candidates managed to describe the nature of the relief in the mapped area such as; The relief is highland ranging in altitude between 1140m and 1300m (grid reference 836845) above the sea level, which indicate highland plateau. Also the land is generally sloping North – East to Western and Southern part where by North Earthen part is mostly elevated land while western southern part is lowland plateaus with many streams and seasonal swamps.

In part (c), most candidates were able to calculate the gradient from grid reference 835846 to 782786. They managed to identify two points of which gradient were to be based, then they measured the distance between two points whereby they got 16 cm, and then, they followed the procedures of calculating gradient of places as follows;

```
Gradient = \underbrace{Vertical\ increase}
Horizontal\ increase
Gradient = \underbrace{difference\ in\ height}
Horizontal\ distance
Gradient = \underbrace{1300m - 1160m = 140\ m}
16\ cm

They applied the given map scale 1\ cm = 0.5\ km
Gradient = \underbrace{140m}
16\ cm\ x\ 0.5\ km
Gradient = 140/8km
1\ km = 1000\ m
Gradient = 140m/8000m = 1/57
```

Gradient = 1 in 57

Therefore, they ended up with the correct answer; gradient is 1 in 57.

In part (d), the candidates were able to identify the highest point on the given map as 1300m, grid reference 835846 and its direction is North East.

In part (e), they managed to state general direction of slope of the land as follows; *the slope is decreasing from North East through central part to the West and South.* Extract 3.2 is a sample of correct responses to question 3.

3	a7 State 1:50,000
	To change it into Statement Scale
	1 (m · 50,000 (m
	16m = 100000 cm 2 = 50,000 cm
	q = 30,000 × 1 cm
	\w <sub>e</sub> ow
	x: 1/1 km
	/ E
	1 cm to 1/2 km
	Total distance (overed in Continetre U 12.8 cm
	If Icm appears 1/2 km
	12.8cm represent 2
	12.8 × 1/2 tm = x
	6.4 km = x
	. Total distance Covered in Kilometres from Sitenge town
	(132787) to Hambokuroa (755765) and hock to Sirring
	13 6.4 Km
-	b) The nature of relief is Highland Pelief due to
	Presence of many Contours in majority of the ma
	ffld area
	C) Gadrent: Yertical Interval
	Horizontal distance
	v. I : 1300-1260 = 4cm
	H' & = 16 cm
	To Change into km
	$l(m = y_1 t_m)$
	16cm = 1 9c
	X: 8Km

B	TO CONVERT & REM INTO M
	1km = 1000 m
	8 km = 7 x
	8000 m
	H·[ = 5000m
	Gradient > VI
	H·E
	= 100 m
	Goodin
	2 <u>1</u> 57
	Chradient is 1,
	<b>'</b> 57
	d) The highest funt is 1300m is and reference is
	839846
	53) \ uv
	e) heneral direction of Slope 1) nown east to
	South West

Extract 3.2: A sample correct responses for question 3.

#### 2.2.2 Question 4: Application of Statistics

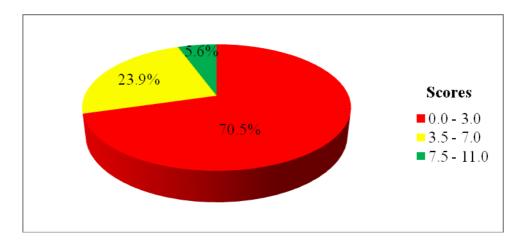
The candidates were required to carefully study the weather data for a station in Australia and answer the questions that followed.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp (°	28.3	27.5	28.5	29	26.7	26	26	25	24	26	27	28
<b>C</b> )												
Rainfall	380	330	240	175	170	5	2.5	2.2	17	50	210	230
(mm)												

This question had five parts (a), (b), (c), (d) and (e) which tested the candidates' capability on the Application of Statistics topic. The candidates were required to (a) calculate the annual mean temperature for the station, (b) determine the rainfall range, (c) find the temperature mode and median, (d) comment on the relationship between temperature and rainfall, and (e)

show the application of the data in the daily life by giving two examples. The total marks allocated for this question were 11.

The question was attempted by 410,700 (94.1%) candidates. Of all, about 289,689 (70.5%) scored from 0 to 3 marks, 98,029 (23.9%) scored from 3.5 to 7 marks and 22,982 (5.6%) scored from 7.5 to 11 marks. The general performance in this question was poor because 70.5 percent of them scored below average pass mark. Figure 1 illustrates the candidates' performance for this question.



**Figure 1:** Candidates' Performance for Question 4

The analysis indicates that about 289,689 (70.5%) candidates who scored from 0 to 3 marks had poor knowledge and skills on statistical measures. this is because they failed to provide correct answers in some parts of the question which required application of mathematical skills.

In part (a), some candidates were not able to calculate the annual mean temperature for the station as they did not show any procedures. Instead, they just wrote the incorrect answers. For example, one candidate wrote  $17^0$  C while, another one wrote  $18^0$  C without showing any procedures. Some were able to present the sum or total of all temperature records, and divided the total by the number of months correctly. Yet they failed to get average value of the data due to poor application of mathematical skills. For example, one candidate managed to follow correct procedures of finding summation of all temperature records and dividing by 12 months, but ended

up getting 312/12=26 which was incorrect answer while, the correct total was 322/12=26.8.

Part (b) and (c) aimed at testing the candidates' capability in applying mathematical skills to calculate the rainfall range, temperature mode and median for the station in Australia by using weather data provided. Some of the candidates failed to provide correct answers as they used the formula for calculating median of the grouped data, instead of the median of individual data. Others wrote correct formula, but failed to compute the values while, others did not show any formula, they just wrote answers that were incorrect.

In part (d), majority candidates failed to comment on the relationship between temperature and rainfall due to lack of sufficient knowledge and skills on climate and weather. They were unable to study the table correctly; as a result, they provided incorrect responses. For example, one candidate wrote incorrect answers as; when rainfall decreases temperature remains constant. However, other candidates who scored few marks explained insufficiently the relationship between temperature and rainfall. For example, one candidate wrote inadequate explanations such as in January, March and April temperature and rainfall are high.

In part (e), some candidates in this category failed to show the application of data in the daily life by giving two examples. For example, one candidate drew *bar graph and line graph* to show the relationship between temperature and rainfall. Another candidate explained inadequately the application of data in the daily life as; *it helps farmers to plan the best use of land* and *helps to know the amount of rainfall*. Extract 4.1 represent incorrect responses for question 4.

//		
4		
	a/ Loln	
	Total of temp. divide by 19 28.3 + 27.5 + 28.5 + 29. + 26.7 + 28 + 26 + 25 + 24 + 26	
	28.3 + 27.5 + 28.5 + 29. + 26.7 + 26 + 26 + 25 + 24 + 26	
	t 27 + 28	
	3	
	TARRY = 322.0	
	10.	
	= 2.61	
	.1, = 2.610°	
	<b>b</b> /.	
	Qoln Qoln	
	= Highest - Lowert	
	= Highest - Lowert = 380mm = 5	
	= .376 mm.	
	The tanger is 375 mm.	
	,	

4	c) Solution					
		X	f	Cf		
		29	1	١		
•		28.5	1	2		
		28.3	1	3		
		28	1	4		
		27.5	1	5		
		27		6		
		26.1	1	7		
		26	3	10		
		25		11		
		24	1	12		
			12			
	1) Mode=L	+/ . t,	l			
	i) Mode=L	$\frac{1}{t_1+t_2}$	/			
	Mode s	L +/ Ti \2				
		(7,-72)				
	2	[29	2.61			
	2	4+10.5	/			
		27			) i = 29	
	Medoa	n = 1+	N/2	- CPb	i = 29	
			f,	m	/	
	d) It is eq	aughorial	doma	le	due to its temperature	
	and am	ount of rac	nfall			
	e) 1. Group	oed dada				
		vuped da	0			

Extract 4.1: A sample of incorrect answers for question 4.

In extract 4.1, the candidate was able to calculate the sum of all values of temperature, and divided them by twelve months, but she/he ended up with incorrect average in part (a). In part (b), she/he failed to find the range. In part (c), she/he used the formula for grouped data to find temperature median, instead of the formula for individual data. In part (d), she/he provided the type of climate instead of the relationship between

temperature and rainfall while, in part (e), the candidate mentioned the characteristics of data instead of explaining the application of data in the daily life.

The analysis additionally indicated that 98,029 (23.9%) candidates who scored from 3.5 to 7 marks had moderate knowledge of the subject matter. They demonstrated moderate mathematical skills which enabled them to provide correct answers to some parts of this question. For example, one candidate was able to; (a) calculate the annual mean temperature for the station, (b) determine the rainfall range and (c) find mode and median. However, this candidate was not able to provide a correct comment on the relationship between temperature and rainfall in part (d). He/she provided incorrect relationship as; both temperature and rainfall are shown in the same table and graph. On the other hand, some candidates were able to provide correct comments on the relationship between temperature and rainfall for the station while, others mixed correct and incorrect responses. For example, one candidate wrote in January rainfall and temperatures are high while in June and August is low.

In part (e), majority of the candidates gave two examples and showed partially the application of the data in daily life. Others managed to give one example, but failed to show its application in daily life. For example, one candidate wrote that *data* is used to predict occurrence of floods and helps to know the type of crops to plant.

Further analysis indicated that the 22,982 (5.6%) candidates who scored from 7.5 to 11 marks had adequate knowledge and skills on the concept of application of statistics. This is especially on how to apply mathematical skills in doing various calculations. Their scores varied depending on the strengths of their responses. They showed abilities to interpret data from the table and managed to (a) calculate the annual mean temperature for the station by following the correct procedures as;

Annual mean temperature (
$$^{0}$$
 C)

Mean =  $\sum x$ 

N

28.3 +27.5+28.5+29+26.7+26+26+25+24+26+27+28

12

322/12 = 26.83

Hence, they ended up with the correct annual mean temperature 26.830 C

In part (b), they managed to determine the rainfall range as follows; Highest rainfall amount (January) – lowest rainfall amount (August) 380 mm - 2.2 mm = 377.8 mm.

Therefore the rainfall range is 377.8 mm.

In part (c), the candidates were able to find the temperature mode and median as follows:

- (i) Temperature mode is the temperature with highest frequency. Hence, the mode is  $26^{\circ}$  C.
- (ii) Temperature median is obtained by rearranging the data give in ascending or descending order and finding the middle number.

From the data given the middle number is 26.7 and 27.

Thus median = 
$$\underline{26.7 + 27} = 26.9^{\circ} \text{ C}$$

The temperature median 26.  $9^{0}$  C  $\approx 27^{0}$  C.

In part (d), they provided correct comment on the relationship between temperature and rainfall that; high temperature is experienced in January, February, March, April, November and December because rain fall is high while there is low temperature in June, July, August, September and October because of low rainfall.

In part (e), they were able to give two examples, and showed the application of data in daily life such as;

- (i) They enable Geographers to determine the types of crops to be cultivated in the area based on the weather condition/characteristics as given in the table.
- (ii) The data can be used to predict the future trends in weather patterns. For example, the trend of temperature and rainfall can be used to predict possibility of drought or unusual rainfall (floods),

hence take precaution measures. Extract 4.2 represents correct responses for question 4.

04.	a) Annual moin temperature.
	Anual mean temperature : Average temperature
	27+ 26 + 28:3 + 27:5 + 28:5 + 29 + 26:7 + 26+ 26+25 + 24+28
	12.
	Annual mean temperature = 322 °c
	2
	Annual mean temperature = 26.8°c
	The annual mean temperature is 26.8°c

	O
04,	b) Rainfall range
	Highest rainfall - lowest rainfall.
	(380 - 2·2) mm
	Range = 377.8 mm
	The rainfall range is 377.8mm
	c) Temperature mode and median.
	c) Temperature mode and median.  Mode = High trequency.
	20 - 3 hence it has high frequency
	s herce it has high to the
	:. The temperature mode is 26°
	Median:
	Arrange from lowest to highest.
	24+25+26+26+26+26+26.7+27+27.5+28+28.3128.5+29
	Middle value = 26.7 + 27
	2
	Median = 26.9°c
	The median temperature 1, 26.9°c
	d) The relationship between temperature and rainful
	· For the station in many months as the
	temperature increases also the rainfall
	increase, and the vice vena.
	e) Application.
	?) Used in planning for agricultural activite
	example months for planting and harvesting.
	ii) (bed in planning for tourism activities
	example dudes summes month.
	example during summer month.
L	

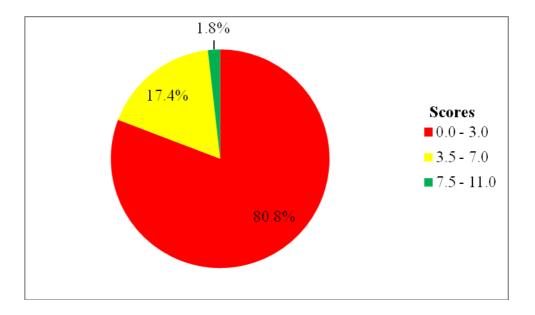
Extract 4.2: A sample of correct responses for question 4.

#### 2.2.3 Question 5: Introduction to Research

The candidates were given the statement that, suppose you want to conduct a research about maize production in your district from 2008 to 2018 and your interest is to know whether the production has increased or decreased. Your plan is to consult farmers who were directly involved in the maize production for the said period and visit the District Agricultural Officer for more information'.

This question had four parts (a), (b), (c) and (d). The candidates were required to; (a) mention the best research approach for the study, (b) name the main source of data for the study, (c) identify two individuals who would be respondents for the study and (d) mention other six possible sources of research problem for the similar study. The total marks allocated for this question were 11.

The question was attempted by 382,658 (87.7%) candidates of which 309,055 (80.8%) scored from 0 to 3 marks, 66,562 (17.4 %) scored from 3.5 to 7 marks and 7,041 (1.8%) scored from 7.5 to 11 marks. The general performance in this question was poor as 19.2 percent scored 3.5 marks and above. Figure 2 illustrates the candidates' performance for this question.



**Figure 2:** Candidates' Performance in Question 5

The analysis showed that 309,055 (80.8%) candidates who scored 0 to 3 marks had inadequate knowledge of the concept of research.

In part (a), the candidates were not able to identify the best research approach for the study because they misinterpreted the demands of the question as a result, they scored zero marks. For example, one candidates mentioned *questionnaire method* while, another one wrote *interview methods* which are the primary sources of data. Some of the candidates

mentioned secondary sources of data. For example, one candidate wrote *Literature review*. The correct answer was *quantitative research*.

In part (b), some candidates were able to name the main sources of data while, others provided incorrect answers. For example, one candidate wrote the correct source as *primary source*. Another candidate provided the technique used to select samples such as *random sampling* while another one wrote *farmers and District Agriculture Officer*.

Furthermore, the candidates' responses showed that in part (c), some of the candidates managed to identify two individuals who would be respondents for the study. Others mixed correct and incorrect answers. For example, one candidate wrote the correct answer *farmers* and incorrect answer *villagers*. Another candidate wrote methods of collecting data as *questionnaires* and *observation* that were both incorrect answers instead of providing two respondents for the study.

On top of that, in part (d) which aimed at testing the candidates' ability on suggesting the possible sources of research problems for the similar study, the analysis showed that some of the candidates misconceived the question and gave incorrect answers. Those with insufficient knowledge mixed correct and incorrect answers. For example, one candidate wrote incorrect points such as; *brainstorming*, *community* and *farmers* while, another candidate provided the stages of conducting research as *identification of the problem*, *formulation of hypothesis*, *collection of data*, *data analysis*, *testing of hypothesis and record writing*, instead of other sources of the problem for the similar study. Extract 5.1 is a sample of incorrect responses for question 5.

5. 0	tudy  - Questionnaine
/	tudy
-	- Questionnaire
1	
Ł	Name the main courses of data for your study random sampling
'	random sampling
	Identity two individuals who will be respondent
LI LI	or your study.
	N Questionnaire
/	je Questionnaire  1) Observation
	/
de	Mention other vix passible source of revearch
1 6	amblem for the similar atural.
1	is Identify the problem
	11) pormulating hypothesis.
	iii) Analysis bata
	iv Collectina data
,	vy teating bypothesis.
	in Analysis Data  iv Collecting data  vy teating hypothesis.  vy Writting records
	VI VIIII LEGIS

Extract 5.1: A sample of incorrect responses for question 5.

In extract 5.1, the candidate mentioned the method of collecting data in part (a), instead of the best research approach which is *quantitative research*. In part (b), she/he wrote the technique of selecting samples which is *random sampling*, instead of naming the source of data that is *primary source*. In part (c), she/he mentioned methods of collecting data that is questionnaire and observation, instead of identifying two individuals who would be respondents that were Maize Farmers and District Agricultural Officer. In part (d), she/he provided the stages of conducting research, instead of six other sources of research problem for the similar study that are *deductive from theories*, *literature review*, *practical issues in society*, *inductive theories*, *ready available problems* (*example*, *eruption of diseases*, *fire*, *floods etc.*) and *information from expert*.

On the other hand, a total of 66,562 (17.4%) candidates who managed to score 3.5 to 7 marks were able to answer some parts of the question correctly. For example, in part (a), some of them managed to identify the best research approach for a study while, others misinterpreted the question that led them to write wrong answers. For example, one candidate wrote the correct best approach as *quantitative approach*, instead of *quantitative research*.

In part (b), most candidates were able to name the main sources of data provided while, others could not give correct responses. For example, one candidate wrote the correct main source of data as *primary source*. In part (c), most of the candidates managed to identify the two individuals who would be respondents for the study that were *Maize Farmers* and *Agriculture Officer*.

In part (d), most candidates did not manage to mention the six possible sources of research problem for the similar study. Some of them provided correct responses and others mixed correct and incorrect answers. For example, one candidate wrote *District Agriculture Officer* and *use of samples*.

Further analysis indicated that 7,041 (1.8%) candidates who scored from 7.5 to 11 marks demonstrated adequate knowledge and skills on the subject matter because they were able to meet the demands of the question. In part (a) they mentioned the research approach as *quantitative approach*. In part (b), they named the main source of data for the study as *the primary source* and in part (c), they managed to identify two individuals who would be respondents for the similar study as *Maize Farmers* and *District Agriculture Officer*.

Moreover, in part (d), they were able to mention other six possible sources of research problem for the similar study as; *deductive from theories*, *literature review*, *practical issues in society*, *inductive theories*, *ready available problems* (*example*, *eruption of diseases*, *fire*, *floods etc.*) and *information from experts*. Therefore, strengths of their answers led to variations in their scores. Extract 5.2 is a sample of correct responses for question 5.

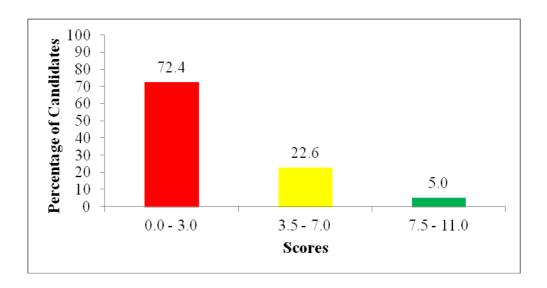
5(à)	Quantitative research approach.	
(9)	Consultation (asking questions) to the farmers	
	and the distort Agriculture officer.	
(c)		
1.	Famers	
۵,	District Agriculture officer.	
(d)	Sources of research problem.	
1.	Casual observation.	
2.	Related liferature.	
3.	Current social and political issues.	
4,	Doduction from theories	
S	Personal interests	
٦,	Expoñence.	

Extract 5.2: A sample of a correct response for question 5

#### 2.2.4 Question 6: Forces that Affect the Earth's Surface

The question consisted of two parts (a) and (b). In part (a), the candidates were required to use well labeled diagrams to show the two stages of rift valley formation by tensional forces. In part (b), they were required to explain four benefits of rift valley to societies in Tanzania. The total marks allocated for this question were 11.

The question was attempted by 338,516 (77.5%) candidates of which, 245,029 (72.4%) scored from 0 to 3 marks, 76,575 (22.6%) scored from 3.5 to 7 marks and 16,912 (5%) scored from 7.5 to 11 marks. The general performance in this question was poor as only 27.6 percent scored 3.5 marks and above. Figure 3 illustrates the candidates' performance for this question.



**Figure 3:** Candidates' Performance for Question 6

The analysis indicated that 245,029 (72.4%) candidates who scored from 0 to 3 marks had little knowledge of the features of the Earth's surface, particularly rift valley formation by tensional forces.

In part (a), some candidates managed to draw the diagram but failed to show the two stages of its development while, others drew incorrect diagram. For example, one candidate drew *combined bar* and *line graphs*, while another candidate drew the diagram, showing the formation of *sill and dyke*. Another candidate drew the diagrams that show the formation of *meanders* and *oxbow lakes*.

Further analysis showed that, in part (b) some candidates were not able to explain four benefits of rift valley to societies in Tanzania while, others mixed correct and incorrect points. For example, one candidate wrote irrelevant responses as; *rift valley helps in irrigation activities* and *trading activities*. Extract 6.1 is a sample of incorrect responses for question 6.

6. @. Using well Labellod Tragrams, show two stages
of 17ft Valley formation by tensional forces.
OThe river from the meander.
(
( Moandon.
to The river form the neck along the river bed.
Neck.
Marc.
and is known as ox-bas lake.
and 11 known as 0x-baw lake.
lake
(D'Benefit of rift valley.  () To Control flood
( ) To Control flood
O Help in introducing different Agricultural
Scheme.
O Helps in electric production.
OIL acts as a Source of Tourist affraction like
Lake Tanganyika.

Extract 6.1: A sample of incorrect answers for question 6.

In extract 6.1 the candidate drew the diagrams that show the formation of meanders and oxbow lake, instead of rift valley formation.

On the other hand, 76,575 (22.6%) candidates who scored from 3.5 to 7 marks had moderate knowledge of rift valley formation as a result of tension forces. They managed to give correct responses in one part of the question. For example in part (a), some of the candidates were able to draw

well labeled diagrams and indicated stages of rift valley formation. Others failed to respond correctly as the question demanded. For example, one candidate drew the diagram to show stages of rift valley formation by *compression forces*, instead of *tension forces*. Another candidate drew incomplete diagram.

Moreover, in part (b) some candidates managed to explain inadequately the benefits of rift valley to societies in Tanzania. Some mixed correct and incorrect responses, while others failed to respond correctly as a result they scored few marks. For example, one candidate wrote four correct answers, but provided partial explanations to them.

On the other hand, a total of 16,912 (5%) candidates who scored from 7.5 to 11 marks were knowledgeable on the concept of the major features of the Earth's surface and how they are formed. Those candidates showed the two stages of rift valley formation by tensional forces. In part (a), the candidates were able to draw well labeled diagrams showing two stages of rift valley formation by tensional forces. Moreover in part (b), they managed to explain four benefits of rift valley to societies of Tanzania as; research and studies centers can be available in the valley, can provide sites for tourists attractions, recreation activities in lakes example, water sports, fishing activities in lakes which can provide live hood to people, alluvial deposits from which can provide live hood to people, fertile soil from sediments deposited by running water, pastures for the animals can be found in the valley and water for domestic and industrial uses from available lakes in the rift valley. Strengths of the responses led to the differences in their scores. Extract 6.2 represents a sample of correct responses for question 6.

60 The following are the stages of rift valley	
formation by tenzional faices,	
i) the tault lines are formed along the line of	
i) The fault lines are formed along the line of weakness where as the bedding plane of the	
rocks are weak.	
i) The hua to the secretary the tentional former occure	
which pull away the rocks as the area between sinks as if forms a riff valley.  Tensional form	
as it forms a riff valley.	
lensional force	
4/11/1///	
The Control of the Co	
V////////	

1	The following are the benefits of rift valley in Tanzania,
(i	The rift valley constitute of enough graves and water subsereas it is used for postures and water for the nomadic pastoralists example the Macuai people in Tanzania who are pastoralists.
Į	The rift valley has a beautiful scenery which is commonly used as a source of tourism attraction as it is leads to increased national income.
<u> </u>	The rift valley constitutes of water bodies like river where as the water can be used for domestic purposes such as cooking and washing.
(A)	The rift vally is used in production of Hydroelectric power by running water of the sixyers.

Extract 6.2: A sample of correct answers for question 6.

### 2.2.5 Question 7: Photograph Reading and Interpretation



The candidates in this question were required to carefully study the photograph and answer the questions that followed.

The question had five parts (a), (b), (c), (d) and (e). This question required the candidates in part (a), to name the type of rock seen in the photograph; (b) to explain the type of photograph by giving two evidences and in part (c), to suggest the scale of production for the activity taking place with two evidences. In part (d), the candidates were required to mention the main economic activity carried out in the area and (e) to mention three outcomes of the economic activity taking place to the environment. The total marks allocated for this question were 11.

The question was attempted by 424,299 (97.2%) candidates out of which, 167,222 (39.4%) scored from 0 to 3 marks, 198,223 (46.7%) scored from 3.5 to 7 marks and 58,854 (13.9%) scored from 7.5 to 11 marks. Generally, the performance in this question was average as 60.6 percent scored 3.5 marks and above.

The analysis showed that 167,222 (39.4%) candidates who scored from 0 to 3 marks failed to respond correctly to some parts of the question due to insufficient knowledge of photograph reading and interpretation. For example, in part (a), some candidates named the type of the rock seen in the photograph, while others provided incorrect type of rock. For example, one candidate wrote *igneous rock*, while others mentioned *metamorphic rock* instead of *sedimentary rock*.

In part (b), some candidates were able to provide the type of photograph, but failed to give two evidences to justify their responses, while others provided irrelevant types of photograph. For example, one candidate wrote low oblique photograph because the top and side view are seen clearly and it covers a large area. Another candidate wrote high oblique photograph as it shows top view clearly, instead of ground photograph because it shows the side view of the object, the size of objects near the camera are larger than those further away, it shows a small area, it shows a general view of objects and it shows horizon.

In part (c), some candidates failed to suggest the scale of production for the activity taking place. Others mentioned the scale of production without two

supporting evidences. For example, one candidate wrote *small scale* production while another one mentioned *medium scale of production*. The correct response was *large scale production* which is evidenced by the presence of heavy machine (excavator) and a truck.

In part (d), some candidates managed to mention the main economic activity carried out in the area, while others failed. For example, one candidate wrote *cultivation activities*, while another candidate wrote *collection of stones for building purpose*, instead of *mining* or *quarrying activities*.

In part (e), some candidates mentioned few correct negative outcomes of economic activities taking place to the environment while, others provided incorrect responses. For example, one candidate wrote; *death of people* and *occurrence of floods* while, another candidate wrote *shortage of land for agriculture activities*. Extract 7.1 is a sample of incorrect responses for question 7.

7 @ Section and rock was the Greford - which the provided buts the production in the for taking tree.	
which the provided buts the production	
in the you taking tree.	•
b) oblique photograph-with the make	
b) blique shotograph-with the make	
the Estrement about the Conomic ghuman	
baing other motorial.	
V	
i) Commuce born	
ii) Course ce from	
in Marga from.	
in Hanculture.	
d) i) Over pollution	
is Low of Transportation and Commendion.	
in Low of Capital.	

Extract 7.1: A sample of incorrect response for question 7.

In extract 7.1 the candidate wrote *sediment rock* instead of *sedimentary rock* in part (a). In part (b), he/she mentioned *oblique photograph*, instead of *ground photograph*. In part (c), the candidate provided other activities that were not related to the one seen on the photograph that is; *transportation, communication, navigation and agriculture* instead of *mining or quarrying activities*. In part (e), he/she wrote *over pollution, low of transportation and communication and low of capital*, instead of *pollution, land degradation and diseases (air and water borne)* as negative outcomes of the economic activity taking place to the environment.

On the other hand, the candidates' responses showed that 198,223 (46.7%) candidates who had average scores (3.5 to 7 marks) were able to answer some parts of the question correctly. In part (a), some candidates managed to name the type of rock seen in the photograph, while others failed. For example, one candidate provided correct type of rock as *sedimentary rock*.

In part (b), some candidates managed to explain briefly the types of photograph with supporting evidence. However, others wrote *ground photograph* with evidence. For example, one candidate wrote; *Ground photograph because horizon is seen clearly*. Moreover, in part (c) some candidates managed to suggest the scale of production for the activity taking place, without giving any evidence. For example, one candidate wrote the correct answer *mining activities, which are practiced at large scale level*. Other candidates did not attempt this part of the question.

In part (d), some candidates provided correct responses of the main economic activities carried out in the area while, others provided incorrect economic activities. For example, one candidate wrote *mining activities*, and another one provided incorrect answer *collection of building materials*. In part (e), some of the candidates mentioned few correct negative outcomes of the economic activity-taking place to the environment and others mixed correct and incorrect responses. For example, one candidate wrote *occurrence of resettlement and land degradation*.

Further analysis indicated that the 58,854 (13.9%) candidates who scored from 7.5 to 11 marks demonstrated adequate knowledge and skills on the subject matter. The analysis shows that most of the candidates in this category, managed to read and interpret the photograph given. In part (a), the candidates were able to name the type of rock seen in the photograph as *Sedimentary rock*. In part (b), they explained briefly the type of photograph by giving two evidences to support the answer as; *ground photograph* because *it shows the side view of the object, the size of objects near the camera are larger than those further away, it shows a small area, it shows a general view of objects and it shows horizon.* 

Furthermore, in part (c), the candidates managed to suggest the scale of production for the activity taking place with two evidences as; *large scale mining due to the presence of Earth moving machine and a truck*. In part (d), they were able to mention the main economic activity carried out in the area as *mining or quarrying or excavating or extracting activities*.

On top of that, in part (e), the candidates managed to mention the three negative outcomes of the economic activity taking place to the environment as; pollution, land degradation, diseases e.g. air and water borne disease

during rainy season, loss of biodiversity and deforestation. The quality of their responses influenced variations in their scores. Extract 7.2 is a sample of correct answers for question 7.

7 1 The type of took seen in the photograph is sedimentary rock
'Jedmentary rock
(6) The type of photograph is HORIZONTAL PHOTOGRAPH
Evidences
1) The Photograph has included horizons at the back ground.
(1) Too has doctors to size on the way you as-
(11) Features decirate in size at the way yougo-
Month Asia Allegana 18 total 3 to 1
(2) The sails of stabutes to the contests
(c) The scale of production for the activity taking place is large scale production.
Eligenal,
D blessence of Modern Magniner like call and Hagen
In the Mid-Mid ground.
The large the area is the adjusty it taking
(11) The Large the area in where the addition is taking place as it is seen to cover fore and Midgiana
of the photograph.
The fit is just the second of
(d) The Main economic activity which is carried out-
In an artea in Mining
(e) The outcomes of the activity taking place on the -
photography are.
(1) Air pollution. Due to the smoke emitted by Vehicles
Used in the activity.
(1) soil elosion. The to cleaning
of Vegetation for extending the activity.
(111) Defiretation. Due to extending of an area-
for production -

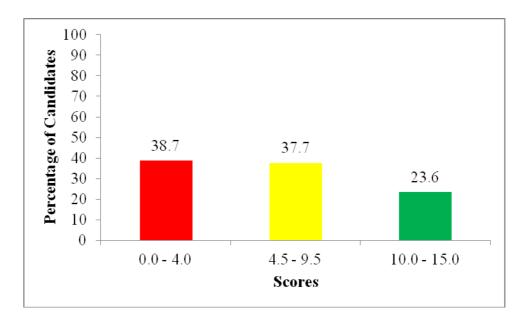
Extract 7.2: A sample of correct answers for question 7.

#### 2.3 SECTION C: REGIONAL FOCAL STUDIES

#### 2.3.1 Question 8: Tourism Industry

The question required the candidates to explain lessons that Tanzania tourism has to learn from Switzerland to improve the sector more by giving six points. The total marks allocated for this question were 15.

The question was attempted by 390,487 (89.5%) candidates, where 151,202 (38.7%) scored from 0 to 4 marks, 146,971 (37.7%) scored from 4.5 to 9.5 marks and 92,314 (23.6%) scored from 9.5 to 15 marks. The general performance in this question was average because 61.2 percent scored 4.5 marks and above. Figure 4 illustrates the candidates' performance for this question.



**Figure 4:** Candidates' Performance for Question 8

The analysis of the candidates' responses indicated that, 151,202 (38.7%) candidates scored from 0 to 4 marks. This implies that they had poor knowledge and skills on the concepts of tourism specifically on the factors for the development and growth of tourism in Switzerland. The analysis showed that some of them failed to meet the demands of the question, as they provided incorrect responses. Others managed to provide relevant introduction of tourism but failed to provide correct explanations on how

Tanzania should improve tourism industry. For example, one candidate wrote inadequate introduction and incorrect points as; to improve international relationship, protecting the wild animals, provision of education and proper water crisis management. Another candidate explained factors which hinder development of tourism in Tanzania as; lack of good transport and communication, lack of government support, lack of enough capital and lack of market instead of focusing on the lessons that Tanzania has to learn from the Switzerland's tourism sector. Another candidate provided relevant introduction, but wrote incorrect points as; source of unemployment, source of foreign currency and source of income.

Moreover, some candidates failed to provide relevant introduction and conclusion, but they mixed correct and incorrect answers. For example, one candidate wrote; *increase of foreign currency, government support and source of employment, marketing, publicity and hospitality*. Extract 8.1 is a sample of incorrect responses for question 8.

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Extract 8.1: A sample of incorrect responses to question 8.

In extract 8.1, the candidate explained the factors which hinder the development of tourism industry which are *shortage of capital, poor infrastructure, poor government support, poor energy supply* and *poor climatic condition*. He/she was to provide lessons that Tanzania tourism has to learn from Switzerland to improve the sector.

Furthermore, a total of 146,971 (37.6%) candidates who scored average marks (4.5 to 9.5) had moderate knowledge about tourism specifically on the factors for the development of tourism in Switzerland; hence they were able to give few correct responses. Some candidates were able to provide relevant introduction, inadequate explanations of points with relevant conclusions. Others presented relevant introduction and conclusions, but they mixed correct and incorrect answers. For example, one candidate wrote; *marketing*, *publicity*, *provides development to the country* and *provides employment opportunity* as a result she/he scored few marks.

Another candidate provided relevant introduction, but explanations of the points were insufficient such as; advancement in communication and transportation network, good accommodation, hospitality, good market, good infrastructure and peace and stability. Those responses show that the candidate lacked sufficient knowledge of tourism sector.

Further analysis revealed that 92,314 (23.6%) candidates who scored from 10 to 15 marks. They showed sufficient knowledge about the factors for the development of tourism industry in Switzerland. They understood the demands of the question, as they provided good introduction such as; Tourism is one among the important economic sectors in Switzerland and Tanzania. But there is difference in level of tourism development between the two countries where as tourism is more successful in Switzerland than in Tanzania despite the presence of numerous tourists attractions in the country. Most candidates in this group managed to explain the lessons that Tanzania tourism sector has to learn from Switzerland so as to improve the sector more. Examples of their points were: marketing and publicity, develops and expands tourist attractions, promote hospitality, training in tourism, improvement of infrastructures, stable political system and neutrality and promote domestic tourism. The strengths of their responses led to variations of their scores. Extract 8.2 is a sample of correct responses for question 8.

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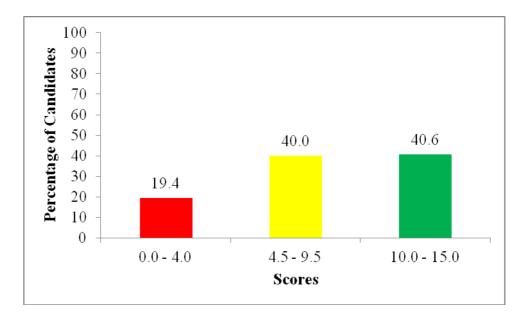
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I THIS DEPENDS TO HE COUNTY ( TOTAL)	-	mic benefits to the country (Janzania).	

Extract 8.2: A sample of the correct answers for question 8.

#### 2.3.2 Question 9: Human Population

The candidates were required to justify the statement that 'migration is caused by both pull and push factors' by using six points. The total marks allocated for this question were 15.

The question was attempted by 362,469 (83.0%) candidates whereby 70,474 (19.4%) scored from 0 to 4 marks, 144,684 (40%) scored from 4.5 to 9.5 marks and 147,311 (40.6%) scored from 10 to 15 marks. The general performance in this question was good because 80.6 percent scored 4.5 marks and above. Figure 5 illustrates the candidates' performance in this question.



**Figure 5:** Candidates' Performance for Question 9

The analysis showed that 70,474 (19.4%) candidates who scored from 0 to 4 marks lacked knowledge of the subject matter. Some provided irrelevant responses which were contrary to the demands of the question. Other candidates provided correct introductions, but they mixed correct and incorrect responses with relevant conclusion. Moreover, some candidates misinterpreted the question's demand; therefore, they wrote incorrect responses. For example, one candidate provided the following responses; population increase, death and birth rate. Other candidates provided incorrect responses which were neither pull nor push factors for migration.

For example, one candidate mentioned incorrect responses which describe the types of settlement patterns such as *nuclear*, *linear* and *scattered settlement patterns*. Extract 9.1 is a sample of incorrect responses for question 9.

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15	Migrations is caused by both pull and push
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	late From one name to another: the tallowing
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	lande from another country It the same in our
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	some tools and thou willing incide or their
	countries and us cottion the missions:
	19 considered to bring consect on This
	booking the white people I the same land
	because the white people 1 the some Inside of our country we bring the good cooperation
	with us.
	W III W
	report. This is because the people from the Outised of our country the reproduce good tooks and box getting the raw materials and
	traport this is because the people from the
	outised of our country the reproduce good took
	and got getting the raw materials and
	the concluditions of justice justice into
	It help to get the raw material. This
<u> </u>	in because our country is a country which
	have a big power to confern them and to
	reproduce their product.
	included and
	Availability of Food, this is because the
	Availability of Food: This is because the our country have a lot of water to supply to
	Their people income of country also there is
	shortage of water in their country
	Generally the migration help us 10 know
	about the something and holp us to migrate Fro
	in the one place to another for expering.
	V = 11 = Ø

Extract 9.1: A sample of incorrect responses for question 9.

In extract 9.1, the candidate explained the benefits of migration such as; it gives good communication, it help to get raw materials, it brings cooperation and it is a source of home, instead of the pull and push factors which cause migration.

Furthermore, a total of 144,684 (40%) candidates who scored average marks (4.5 to 9) were able to understand the demands of the question, and had moderate knowledge of the topic tested. The analysis showed that some candidates in this category explained the causes of migration correctly, but they failed to explain all the required points as the question demanded. Others managed to give relevant introductions, but mixed correct and incorrect responses. For example, one candidate provided relevant introduction and explained the responses inadequately such as; relief, climate factor, soil factor, availability of natural resources, pests and diseases and political stability without providing relevant conclusion.

Further analysis indicated that 147,311 (40.6%) candidates scored from 10 to 15 marks. These had adequate knowledge of the concept of migration particularly the causes of migration. The analysis showed that, they were able to provide relevant introductions as; Migration is the movement of people from one area or region to another which result in changes of resistance. The movement involves either temporary or permanent change of residence. When people move from one place to another within a county for instance from Dodoma to Njombe it is called internal migration but when people for instance move from Burundi to Tanzania is termed as international migration. Moreover, those candidates explained the causes of migration such as; availability of land, climatic condition, relief, presence of natural resource, natural hazards, pests and diseases, political stability, social services, availability of work, political freedom and hope of wealth. Also they managed to provide relevant conclusion. However, candidates' varying abilities to explain the responses led to variations in their scores. Extract 9.2 is a sample of correct responses for question 9.

9 Migration - Is the Movement of people from one
place to another which may result into change in -
residence. Migration can be brought by puch factors
as the factors which demand an individual or group
of People to migriate unwillingly or pull factors as -
the factors which Motivates the people to Migrate -
toward a certain Place due to its beauty. The following
are the pun factor that greatly influence Migration.
Natural disasters. This are natural calamities
like carthquake, stormy and floods so due to those -
disarters people May Migrate from an area which 15 -
affected struct those calamilies are thisk to human -
life so this will be as a push factor since the people -
will move or Migrate unwillingly
political unitest. This is a condition where by-
a certain nation of locality is in state of political-
Unitert. This is accompained by Killing of people due-
to war which is the n arise due to political united so-
this lead to the Movement of people away from the apea
so as to save their lives although they tend to Migrate
Unwillingly since are then called Tefragers.  Diseases. This is also a put factor that force
Diseases. This is also a put factor that total
The people to Migrate at the people tend to Migrate
From the area affected by diseases example cholera -
and Malarra which is some times influenced by the

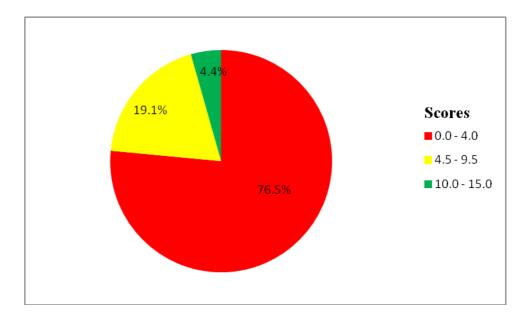
M ly D - Oberest of the second
the condition of environment example in the only conment
which is polluted. So due to this people will be forced
to Move toward other places where there is no diseases.
hence Migfation,
Midration also h lutimines of brill factors ar-
the factor which influence an individual to Higharte-
toward a certain area for a certain gain, Those factors
are like.
Fertility of the soil. This is a pull factor -
that encourage the people to Migrate toward an area
as feitile soil 4 always supportive to agricultural
activities so due to this people will Migrate willingly
in searching for gams-house Migration.
Employment opportunities. This is also a factor
that influence the people to Migrate from one area bandhar.
as many people preferred the area with telable employment
s so as to have a better living standard so this lead to-
Migriation although people Migriate willingly
Better social services, This is a pull feders that
Influence people to Migrate toward an area since the +
grea with better social services like health services, Water-
and electricity supply is favourable for one's settlement.
Conclusively Ministry is main factor which -
Contribute to the population change in an area so-
Contribute to the population change in an area so- the government should ensure equal affocation of social
Dervices and other better factors in all aleas so be te-
countered the effects that May be brought by the
Mapié increase of vate of Migiation like decrease in-
production due to lack of enough Man power in an -
area Where People Migrati from and shortage of Services in an area where people Migrate to due
Services in an area where people Migrate to due
to increase in population.

Extract 9.2: A sample of correct answers for question 9.

#### 2.3.3 Question 10: Elementary Surveying and Map Making

The candidates were given the scenario that 'the Form Three students were told by their Geography teacher to perform a survey activity around the school compound'. From the scenario they were required to explain eight pre survey activities they need to consider. The total marks allocated for this question were 15.

The question was highly skipped as it was attempted by only 46,865 (10.7%) candidates of which, 35,851 (76.5%) scored from 0 to 4 marks, 8,940 (19.1%) scored from 4.5 to 9.5 marks and 2,074 (4.4%) scored from 10 to 15 marks. The general performance on this question was weak because 76.5 percent of the candidates who attempted this question scored below average pass mark. Figure 6 illustrates the candidates' performance for this question.



**Figure 6:** Candidates' Performance for Question 10.

The analysis of candidates' performance indicated that 35,851 (76.5%) candidates who scored from 0 to 4 marks had insufficient knowledge and skills on the concept of survey, particularly on pre-survey activities. The analysis indicated that most of those candidates were not able to provide the correct responses according to the demands of the question. Few candidates managed to give relevant introductions, and outlined few correct

responses. Others mixed correct and incorrect responses without providing introduction and conclusions. For example, one candidate explained the types of survey as; chain survey, leveling, plane table survey and prismatic compass survey. Another candidate mentioned the instruments used in leveling as; leveling staff, spirit level, tripod stand, abney level, and surveying band instead of pre-survey activities that are; identification of an area, preparation of survey budget, determination of the objective of the survey, ask for permission from the responsible authority of the area etc. Extract 10.1 is a sample of incorrect responses for question 10.

10 Survey; I the science which taking only	
un ear measurement are taken in the field When	
the need to conducting a survey it need the three	
groups one booker, Hollowers and Leader The followers and Leader The followers	
whing are the eight pre-Jurvey activities they need	)
to consider.	
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distance, when the people especially the students	1
which they gred to confuct survey they needs t	b
consider the chain Survey before a conducting the	,
Survey in the field.	
Note book; This is instrument well to rea	r-
Ling the information when the Survey or team the	ч
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Note book before the conducting the survey in	
Http field	
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consider Ranging poles before to the conduction	ıq
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should be prepared.	
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it very important to used to area which the	'
done Sunley.	

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nts in the field ome not the splace another so the	1P
cross state is very important.	
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the survey should be to consider the page beca	u-
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well to writing the dala or information, is the sur	UP-
yor team should be to conducting the survey i	n
the field to the people should be to consider the	Ľi.
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All in all the team should be to prepa	16
the instruments before to conducting the survey	in
the field	
3	

Extract 10.1: A sample of incorrect responses for question 10.

In extract 10.1, the candidate explained the instruments used in chain survey which are *chain*, *note book*, *ranging poles*, *arrows*, *tape*, *cross staff*, *pegs and surveyors band*, instead of pre-survey activities.

On the other hand, a total of 8,940 (19.1%) candidates who scored average marks (4 to 9) demonstrated moderate knowledge and skills on the concept of survey. Their responses showed that, they were aware of the procedures to be followed before the actual survey, though they failed to give clear elaborations. Few candidates gave relevant introductions, but mixed correct and incorrect points. Others provided irrelevant introductions, then provided few pre survey activities with partial conclusions. For example, one candidate provided incorrect points as; formulation of hypothesis, testing of hypothesis and writing of the report. Such a candidate failed to recognize that these are among the stages of conducting research. Another candidate wrote; choose types of clothes according to the weather of that area, ensure your security, should know the language of that area and should be familiar with the sample.

Further analysis showed that about 2,074 (4.4%) candidates who scored from 10 to 15 marks demonstrated adequate knowledge and skills on the subject matter, specifically on the pre survey activities. They were able to provide relevant introductions as; Survey is a science of measuring and recording distance, angles and heights on the Earth's surface to obtain which accurate plans and maps are made. They managed to explain eight pre – survey activities as; identify the survey area, prepare survey budget, determine the objectives of the survey, ask for permission from the responsible authority of the area you want to survey, prepare survey equipment or tools, time duration, prepare a survey team and prepare pre survey visit or reconnaissance. They ended up with relevant conclusions. However, their marks varied due to differences in capabilities of explaining relevant responses as the question demanded. Extract 10.2 is a sample of correct responses for question 10.

40 Survey is the process of measuring
recording and doborniourng lenter dista-
nces angles and relative heights
of different points on the Earth surfe.
co for the prochection of Map. There
are hour bypes of Survey which are
Chair Survey, Prismatic Eompaes survey,
Plant table Survey and Lovelling survey
The following are the pre-survey activi-
ties somewort head to consider before cond-
usting the survey.
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be cevaitable so that a survey
activity may be go on.
Proparation of tools, After gotting
boot area someone needs to have
bools for conducting the Survey. Such
boots including Tap chain Medolite
Chokette and 18 gs. The thates or tool
depends on what buye of Survey Someone
conducts.
Preparation of Survey beam, Those
are people who cere helping me

10 survey process. Such activities thoy help is lete carrying Instrument and frame the pogs.  Conclusting Reconardance, This is the paying short visit to the area where the Servey must be go on or conclusted.  This will holp a Surveyor to have full information export that place, that is flat or round? It have obsteades in large amount or not?  Proparation of Servey Schidules, This involves planning in general those activities will be carried from what time to what time. Shortly is this gontral time to what time. Shortly is this gontral timefalls of survey activity during Such timet.  Proparation of Moss capital for onsur- ing the all needs have reached, survey consumes time and money at all, so it is bottor to have more nooney for purchesing some instrument although some of thom are locally prosent loke pogs.  Proporties report to this Government
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Inorder Someone to conduct the survey
should have to learn more about survey

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	positive surgests in any Society, Forosa.
	ingle by conducting survey Farmers
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	are advised to plant what type of soul and some hears are constant
	ctack as works of survey result.
	9

Extract 10.2: is a sample of correct responses for question 10.

# 3.0 ANALYSIS OF THE CANDIDATES' PERFORMANCE IN EACH TOPIC

The analysis of candidates' performance in each topic shows that the candidates had good performance in 01 out of 17 topics. The topic with good performance was *Human Population* (80.6%).

The performance of the candidates was average in the topics of Tourism Industry (61.2%), Photograph Reading and Interpretation (60.6%), Agriculture (58.5%), and the topics of The Solar System, Structure of the Earth, Forces that Affect the Earth's Surface, Soil, Climate and Natural Regions, Weather, Sustainable Use of Power and Energy Resources, Sustainable Mining, Environmental issues and Management which were measured in question number one had 56 percent.

However, the weak performance was found in five topics of Application of Statistics (29.5%), Forces that Affect the Earth's Surface (27.6%), Elementary Surveying and Map Making (23.5%), Introduction to Research (19.2%) and Map Reading and the topic of Map Interpretation which had the weakest performance of 3.6 percent. The performance of the students by topic is summarized in the attached appendix.

#### 4.0 CONCLUSION

The analysis of individual questions indicated that the general performance of Geography subject in the Form Four (CSEE) 2020 was average. The level of performance has improved in relation to that of 2019. Some candidates answered the questions correctly though many candidates had poor performance in the topics of *Application of Statistics* (29.5%), Forces that Affect the Earth's Surface (27.6%), Elementary Surveying and Map Making (23.5%), Introduction to Research (19.2%) and the topic of Map Reading and Map Interpretation which had the weakest performance of 3.6% as marked by the red colour in the appendix. The reasons which might have contributed to low performance in those topics were inability to understand the demands of the question, lack of basic knowledge of the subject matter, and lack of knowledge of mathematical skills.

#### 5.0 RECOMMENDATIONS

In order to improve the performance of candidates in Geography subject, the following are recommended;

- (a) Teachers should put more efforts on teaching the topics of *Forces that Affect the Earth's Surface* and *Elementary Surveying and Map Making* because their performance is decreasing yearly. The topic of *Forces that Affect the Earth's Surface* requires study tours where by the students will be able to learn by observing different relief features found on the Earth's surface. Moreover, the topic of *Elementary Surveying and Map Making* should be taught through performing practical field study so that the students can merge theory and practiced work.
- (b) Teachers should lead the students to do library research and subject projects in order for them to learn practically how researches are conducted in the topic of *Introduction to Research* as well as enhancing teachers' close supervision when performing practical works.

- (c) Students should be given many exercises concerning the topic of *Map Reading and Map Interpretation* so that they can be able to read, interpret, measure and calculate.
- (d) Teachers are advised to adhere to the principles of conducting competence based continuous assessment in teaching and learning process in the classroom. This will help the students to build self confidence in any assessment because they will be familiar with necessary terms used in assessments items, and identifying the demands of the questions.

Appendix

## **Summary of the Candidates' Performance per Topic**

S/N	Торіс	Question Number	Percentage of the candidates who scored 30% and above	Remarks
1.	Human Population	9	80.6	Good
2.	Tourism Industry	8	61.2	Average
3.	Photograph Reading and Interpretation	7	60.6	Average
4.	Agriculture	2	58.5	Average
5.	The solar System, Structure of the Earth, Forces that Affect the Earth's Surface, Soil, Climate and Natural Regions, Weather, Sustainable Use of Power and Energy Resources, sustainable Mining and Environmental issues and Management.	1	56	Average
6.	Application of statistics	4	29.5	Weak
7.	Forces that Affect the Earth's Surface	6	27.6	Weak
8.	Elementary Surveying and Map Making	10	23.5	Weak
9.	Introduction to Research	5	19.2	Weak
10.	Map Reading and Interpretation	3	3.6	Weak

