## **GEOGRAPHY PAPER 2 FORM 3 MARKING SCHEME**

1	а	) Name two areas where gold i	s mined in South Africa	(2mks)				
		-Witwatersrand -Lydenburg -ogendaalrus						
	a	State three ways in which	mining create employment in Kenya	(3mks)				
		-some people are employ						
		nake use of						
		-some people are employed to transport the minerals from the site to the factorie						
		-some people are employ	ed to work as security officers in the mining	industries				
2	a	Distinguish between a fore	st and forestry	(2mks)				
			nsive land covered with a closed stand of tall tre is the science of developing or cultivating fores					
	b	List three hard wood tree spe	cies in Kenya	(3mks)				
		-Meru oak - mangr	ove					
		-Camphor - Elgon	Olive					
		-Elgon teak	-mvule					
3	a	Differentiate between stati	stics and statistical methods	(2mks)				
		-	ures collected and analyzed in a systematic					
		Statistical methods are the techniques of collecting, recording, analyzing and						
		presenting statistical data						
		b) List three sources of second	lary data	(3mks)				

-Textbooks	- Newspaper
-Journals	- Reports
-periodicals	

4	a) Name two oil producing c -Saudi Arabia -Iran	ountries in Middle East -kuwait - united Arabs emirates	(2mks)			
	-Iraq					
5	-War - bitumen/ pe -Grease/ lubricants -Resin/ petrol chemicals a) Explain why mining is rega		(3mks) (2mks) it cannot replenish			
	b) Explain why petroleum ,oil and natural gas are not regarded as minerals (2mk)					
	c) Name one area in Kenya where gold is mined (1mk)					

kakamega

## SECTION B: 75 MARKS

## 6 ANSWER QUESTION SIX AND ANY OTHER TWO

The table below represents the rainfall and temperature data of station Y for one year. Study it and answer the questions that follow:

Month	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Rainfall(mm)	5	10	33	40	60	100	75	40	30	15	5	5
Temp	23	24	25	27	27	29	28	27	26	25	24	24

a) Calculate the following:

i)Annual temperature range

(2mks)

Maximum temp -minimum temp

 $29^{\circ}c - 23^{\circ}c = 6^{\circ}c$ 

ii) Mean monthly temperature (2mks)

Maximum temp +minimum temp

<u>29°c +23<sup>0</sup>c</u>	=26°c
2	

lii)Annual Rainfall	(2mks)	
5+10+33+40+60+100+75+40+30+15+5+5 = 418mm		
b) Draw a polygraph to represent the data		(8mks)
On the graph paper		
c) Describe the characteristics of the polygraph	in b above	(6mks)
-There is rainfall throughout the year		
-There is one rainfall maxima: from March t	o September	
-Temperatures are high throughout the yea	r	
-Mean annual rainfall is low about (418mm	)	
-Mean annual range of temperature is smal	l about 6°c	
-The amount of rainfall increases with the in	ncrease of temperature	

-The wettest month is June

-	d)Apart from choosing and labeling the vertical scales for rainfall and temperature, state four other steps to be followed in constructing a polygraph (4mks)				
	Choosing and labeling the horizontal scale Plotting the values for rainfall and drawing the bar graph Plotting the values for temperature and drawing the line graph Writing an appropriate title above the graph				
e)	Give o	ne disadvantage of this type of graph	(1mk)		
	It is d differ	ifficult to choose a suitable vertical scale when values for valuables rence	s have a great		
7	a)	Define the term mineral	(2mks)		
		-A mineral is a naturally crystalline inorganic substance with a definite composition and physical properties	chemical		
	b)	I) Name two areas in South Africa where diamond is mined	(2mks)		
		Kimberly			
		-Orange free state			
		-pretoria			
		<ul><li>ii) Give four ways in which minerals occur</li><li>-veins and lodes</li></ul>	(4mks)		
		-beds and seams			
		hering products			
	Alluv	ial deposits			
	c)	I) Explain Three negative effects of mining on the environment (6mks	5)		

-Waste of agricultural land- mines and their associated tip-heaps may occupy land otherwise suitable for farming

-Waste of industrial land – where derelict land is in or near towns it may occupy industrial land which could be used for industries
-Open cast mines may be filled with water and create deep pools thus accidents are likely to occur. Such pools are also breeding grounds for mosquitoes and other water borne diseases -Pollution- during mining toxic gases may be emitted from the mimes leading to air pollution

	ii) Ident	ify any two methods of mining	(2mks)
		-Open cast mining -Underground mining -Alluvial mining/ placer method	
lii) Nar	ne a por	t through which minerals in East Africa are exported (1mk)	
momb	asa		
d)	•	four ways in which soda ash contributes to the economy of -it has led to the growth of magadi township	<sup>•</sup> Kenya (8mks)
		-it has led to the development of social amenities such as h	ospitals,
		<ul> <li>social clubs, electricity that have benefited the local maas</li> <li>-it has stimulated the development of infrastructure. For example, and the development of infrastructure.</li> </ul>	-
		tarmac road and railway line from konza to magadi in an ot region.	herwise
	-The co standa	mpany provides employment to many Kenyans improving t <sup>r</sup> ds	heir living
	-Throuរួ exchan	gh exports of soda ash the country earns a substantial amoι ge.	int of foreign
8	a)	i) Name two provinces where forests are found in Canada	(2mks)
		-British Columbia	
		-North Eastern provinces up to new found land	
		ii) Give three tree species that are found in Canada	(3mks)
		-Spruces	
		-Douglas fir -White pine	
	b)	Explain three ways in which the transportation of logs in C	anada
		Differ from Kenya	(6mks)
		of logs in Kenya is by tractors and lorries/trucks while in Canada loat the logs on the water	Rivers are

-Canada uses tractors to transport the logs where the rivers are too small or far away from the logging sites while in Kenya tractors are used throughout the year

-Kenya rivers are never used to transport the logs at all while in Canada rivers are used most of the times.

-In Kenya workers are transported daily to the logging sites while in Canada workers live in the logging sites and so the cost of transportation is reduced

c) Explain four problems that face forestry in Canada (8mks)

-In Canada large tracts of land is faced by fires that are caused by smokers, bush burning fires, campers and industrial operations like logging

-Some sections of the forest in the northern part of Canada are in accessible due to rugged terrain and so it becomes hard to exploit the trees.

-The forest in the northern part of Canada is in accessible in winter due to snow.

-The replanted young seedlings take a lot of time to mature usually 50-60 years of tree growing in Canada after harvesting or even after cutting them down in case they have been attacked by aphids like in the case of Kenya.

d) A form four class conducted a field study in a forested region in the area around their school

I) identify two main categories of hypothesis that the students would have formulated

(2mks)

-Null hypothesis/negative hypothesis -Alternative hypothesis / substantive hypothesis/positive hypothesis

ii) Identify four activities the students could have been involved in during the study (4mks)

-Identifying the trees by their local or botanical names

-Finding out the trees that are hard wood and those that are soft wood

-Finding out the uses of trees

-Identifying the trees that are indigenous and those that are exotic

-Finding out the problems facing the trees in the region

9	a)	I) Identify the two types of photographs	(2mks)
		-Ground photographs	
		-Aerial photographs	
		ii) State three advantages of using photographs as a technique or recording data	of (3mks)
		-Photographs are easy to take	
		-Photographs are less time consuming in that one only needs on the object being photographed	to focus
		-Photographs shows physical features such as the appea landscape or economic activities taking place -Photographs are easily accessible	rance of a
	iii) Wi	th reference to ground photographs explain the meaning of	
Dead	ground	<b>d</b> (2ml	<s)< th=""></s)<>
		The area hidden or blocked from the lens of the camera objects	by other
Fore	ground	(2ml	(s)
Poole	around	The part of the photograph nearest to the camera	(0)
Dack	ground	(2ml) It's the part of photograph furthest from the camera	()

I) Name the type of photograph shown				
- Ground general view photograph				
ii) Describe the appearance of the forest shown on the photographs	(7mks)			
- The trees are thin				
<ul> <li>The trees have straight stems</li> </ul>				
- The forest has tall trees				
- The trees are conical shaped				
<ul> <li>The trees are composed of the same species</li> </ul>				
<ul> <li>The trees are almost of the same height</li> </ul>				
- The trees are close to each other				
<ul> <li>The undergrowth is composed of crops</li> </ul>				
c) Name the kind of farming activity in the photograph (1ml	<)			
-Agro forestry				
d) Name the type of trees shown in the photograph	(1mk)			
-cypress				
e) Compare tree harvesting in Kenya and Canada (4m	ks)			
la Kanada kana ia laas waashanisatian wakila ia Canada kumhaning ia maasa maak				

-In Kenya there is less mechanization while in Canada lumbering is more mechanized. -In Kenya logging takes place throughout the year while in Canada it is done in winter -In Kenya cutting of trees is selective while in Canada harvesting is done through clear cutting.

b)



Combine line and bar graph for station y.

10. (a) State 3 factors influencing distribution and types of natural forests in Kenya.

- Climate
- Altitude
- Soils
- Human activities

(b) list 4 characteristics of coniferous forests.

- Trees are light in weight and easy to cut
- Trees are ever green
- Trees occur in pure stands , same species
- Trees cover a large area
- Trees have tall about 30m with straight trunks
- Trees have conical shape
- Trees have thick barks

(c) Explain 4 importances of forests in Kenya.

- Trees regulate the climate of a place
- Trees conserve and preserve the environment
- Forests are a major source of income
- Forests are suitable habitats for wild animals
- Forests provide raw materials for industrial use
- Forests provide beautiful scenery which attract tourists
- Forests are source of fuel firewood and charcoal
- (d) students of your school decided to carry a field study in nearby forest

(i) Give 3 importance of the previsit

- Helps to estimate the cost of study and plan accordingly
- Helps the researcher to familiarize with the area of study
- Helps one to know the tools to carry
- Introduces the researcher to the authorities and the respondents in the area of study
- Helps to determine the appropriate route to follow during the study.
- Helps to identify the problems likely to be encountered
- Guides the researcher to prepare a working schedule

(ii) State 3 reasons why they needed a route map.

• Helps to identify the direction to follow

- Helps to prepare a working schedule
- Helps to locate feat areas for the study
- Helps to estimate the distance to be covered
- Helps to estimate the time for field study is likely to takes

(iii) state 2 follow up activities the students will have after the field study

- Writing reports
- Drawing diagrams
- Discussing with the rest of the class
- Displaying photographs / items collected
- Assessing the information collected against the hypothesis

(v) give 2 reasons why students required a working schedule.

- Helps to estimate time required for the study
- Gives ample time to each activity so that no activity is forgotten
- Reduces tendering to waste time as an activity is confined to specific time.
- Ensures one remains in the scope of study
- Provides a basis for evaluating the fieldwork while still in progress.