

FORM 1 LATEST GEOGRAPHY TOPICAL QUESTIONS **INTRODUCTION TO GEOGRAPHY (OUESTIONS)**

- **1.** Explain the two relationships between geography and physics. (4 marks)
- 2 What is the relationship between Geography and Chemistry? 3Give two reasons why it is important to study Geography
- 4. (a) Define Ecology (2marks) (b) Explain the relationship between Geography and Biology (3marks) 5a) Give the relationship between Geography and Agriculture (2marks
- Give **two** areas of study in human and economic geography. **6**(a)
 - (2 marks) (b) State three economic importance of studying geography in our educational institutions. (3 marks)

THE EARTH AND THE SOLAR SYSTEM

1 .State five proofs that the earth is spherical.	(5 marks)
2 (a) What is the difference between a meteor and a meteorite?	(2 marks)
(b) State three effects of earth's revolution.	(3 marks)
3. a) Name three constituents of the troposphere.	

- (3 marks) **b**) Name the gas that is found in the stratosphere and state its significance. (2 marks)
- 4. a) State three effects of the revolution of the earth. (3 marks)
- **b**) The local time of town Y at 37° is 10.00a.m. What will be the time at town X longitude 10°W.(2 marks)
- 5. a) Name two layers of discontinuity that make up the internal structure of the earth (2 mks)b) State three natural forces that give the Earth its shape
- 6) Study the diagram below and answer the questions that follow.



Give three effects of the movement represented by the diagram. (3mks) 7. a) Apart from planets, name **two** other members of the solar system. (2mks)b) State three characteristics of planets. (3mks) 8. a) i) State two days in a year when the length of day and night is equal. (2mks) ii) Draw a well labelled diagram to show the eclipse of the moon (Lunar eclipse) (3mks) b) i) Give **four** characteristics of planet Jupiter. (4 mks)

For marking schemes and editable word format call 0724351706

(2mks)

(2mks)

(3 mks)

ii) Give **three** possible consequences of the revolution of the earth on lengths of days and nights. (3 mks)

- 9) Highlight two weaknesses of the passing star theory
- **10**. (a) What are asteroids

(b) Name **two** forces responsible for the geoid shape of the earth

11. The diagram below shows the revolution of the earth around the sun.

Use it to answer the questions that follow;



(a) (i) If the earth takes 366 days to make a complete revolution during a leap year, how long will it take to move from

		position 2 to position 4 ?		(1mk)
		(ii) What season is experienced in the Southern hemisphere when the earth	n is in position	1? (1mk)
	(b)	State three effects of rotation of the earth.		(3mks)
12	a	Name the three main layers of the atmosphere from the earths surface	upwards	3mks
13		Give three forces that are responsible for the spherical shape of the earth		3mks
14.	a)	Define the term rotation of the earth.		(2 Mks)
	b)	State three factors that contribute to the geoid spheroid shape of the earth		(3 Mks)
15		Give three reasons why the interior of the Earth is hot.	(3mar	ks)

16. (a) Differentiate between equinox and summer solstice. (2marks)
(b) Give three proofs to show that the earth is an oblate spheroid. (3marks)
17(a) State three effects of revolution of the earth. (3marks)
(b) The local time at Tema on 0⁰ longitude is 12.00 noon. Calculate the local time at Hola 40⁰E.(2marks)
18a) State three characteristics of planet Earth. (3 marks)
19a) The diagram below shows the sun, the earth and the orbit of the moon round the earth. Study it and answer the questions that follow



At what position is the moon likely to be for a solar eclipse to occur ?(1mark)b) State *four* proofs that the shape of the earth is spherical.(4mark)20. a) Name two heavenly bodies.(2mks)b) Give three reasons why the interior the earth is believed to be very hot.(3mks)21 a) State the four layers that makes the atmosphere.(4mks)

For marking schemes and editable word format call 0724351706

(2mks) (2mks)



(b) State two factors that influence humidity. (2 Marks) 5. (a)Differentiate between relative humidity and absolute humidity. (2marks) State the significance of water vapour in the atmosphere. (2rmarks) (b) 6. (a)What is a land breeze? (2marks) Give three ways in which sea breezes influence the climate of adjacent land. (b) (3marks) 7(a) What is temperature? (2marks) (b) Give three factors that determine the amount of solar isolation received on the earth's surface. (3marks) 8The diagram below show the formation of some type of rainfall Use it to answer question (a) and (b).



i.Name the type of rainfall shown by this diagram.

ii. Name the type of cloud marked (A)

b) List three weather conditions associated with the above named type of rainfall (3 marks)

- **9** a) Name **two** elements of weather that can be recorded at a school weather station (2 marks)
 - b) The diagram below represents a weather measuring instrument. Use it to answer the questions that follow.



(i)	Which element of weather is measured using the instrument shown above	(1 mark)
(ii) Describe how the above instrument is used	(2 marks)
10. a)	Apart from water vapour, name three other substances that are suspended in the	atmosphere(3 mks)
b)	State two factors that are considered when classifying clouds	(2 mks)
11 . a)	Name two forms of precipitation common in Kenya.	(2marks)
b)	Give two reasons why the recording of data at a school weather station may be in	accurate.
(21	narks)	
12)	i) Name three instruments found in a Stevenson screen.	(3mks)
	ii) State and explain four qualifications which makes Stevenson screen suitable	four its work. (4mks)
d)	With the help of a well labelled diagram, explain the formation of frontal /cyclonic	ic rainfall.(6mks)
13. (a)	List two elements of weather.	(2mks)
(b)	Name three processes through which the atmosphere is heated.	(3mks)

14. (a) How does a sea breeze occur?

(2mks)

(1 mark)

(1 mark)

(b) Use the map of Africa below to answer questions (b) (i)



Х

Y -

- (ii) Calculate the annual rainfall for station Y
- (iii) On the graph paper provided, draw a bar graph to represent rainfall for station x. Use vertical scale of 1cm to represent 50mm
- b) Describe the climatic characteristics of station Y.

```
18. a) The table below shows climatic data of a station in Kenya.
```

Use it to answer question (a)

Month	Jan	Feb	Mar	April	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Temp in °C	28.9	29.7	30.3	29.9	29.7	29.2	28.4	28.7	29.6	30.1	29.2	28.7
Rainfall in	9.0	8.0	21.0	49.0	25.0	9.0	20.0	10.0	4.0	10.0	17.0	11.0
mm												

i) What is the annual range of temperature at the station?

ii) Calculate the total rainfall for the station.

b) State three factors that influence climate.

19.	(a)	Name two elements of weather that can be recorded at a school weather
		station

- (b) Give three reasons why the recording of data at a school weather station may be inaccurate
- 20. (a) Describe a suitable site where you would locate a weather station in your School (2 mks)
 - (b) Give reasons why a Stevenson's screen is:

	(i) Painted White	(2 mks)
	(ii) Has louvers	(2 mks)
Define	e relative humidity.	(2 mks)
(a)	Identify four characteristics of convectional rainfall.	(4mks))
(b)	State the difference between radiation fog and advection fog	g.	(4mks)
(a)	Briefly describe how the sixthermometers operate.		(5mks)
(b)	Three ways in which clouds areclassified.		(3mks)
(a)	Give three precautions to be taken when citing a weather st	ation.	(3mks)

(b) State three factors determining the amount of solar radiation reaching the earth's surface.

(3mks)

- 25. Define the following terms:
 - (i) Climate

21. 22.

23.

24.

29.

(a)

- (ii) Relative humidity
- (iii) Weather forecasting
- (iv) Absolute humidity
- (v) Weather lore (5mks)
- 26. State the advantages of studying weather through field work. (5mks)27. (a) Describe how you would use the following apparatus during a field study.

Rainfall, maximum and minimum thermometers. (3mks)

- (b) Identify and explain the formation of the type of rainfall found in the LakeRegion or Kenya. (8mks)
- (c) Briefly write down two problems associated with the type rainfall above. (4MKS)
- 28. (a) What is weather forecasting?
 - (b) List four problems of weatherforecasting. (4mks)
 - (c) State four ways in which weather forecasting is important to the human activities. $(4m_{\rm ho})$

(4mks) Explain three ways in which cloudsinfluence weather.

(3mks)

(2mks)

(b) Use the data below to answer questions that follow. Month of the year |J | F | M | A | M | J | J | A | S | O | N | D

						1	1	1	1	1		1	1	1
							 	 			<u> </u>	 		<u> </u>
		Temp in $^{\circ}C$	25	26	26	24	23	22	21	21	22	22	22	22
		Rainfall in mm	42	40	73	171	90	89	163	160	71	68	64	42
		(i) Calculat	e mean	annu	al te	mpera	ture							
		(ii) Calculat	e annua	l rair	ıfall									
		(iii) Calculat	e annua	l ran	ge of	temp	eratu	re.						
		(iv) Calculat	e the me	ean a	nnua	ıl rain	fall							
		(v) Which is	the we	ttest	mon	th?					(10	mks)	
30.	(a)	Define 3 air mas	ss.									((2mk	cs)
	(b)	Name types of a	ir mass	es.								((3mk	cs)
	(c)	A mass of air at	15°C ca	an ho	old 2	0gm/c	cm3 (of m	oistur	e. The	e sam	ne air	at tl	he sa
	. /	6gm/cm ³ of mo	sture. V	Vhat	is its	relati	ve h	umic	lity? (4MK	S)			
31.	Name	e two instruments	placed i	n the	Stev	venso	n Sci	een.	•		,	(2mk	(s)

32. Why does sea breeze flow at night time?

STATISTICAL METHODS

1. The table below shows petroleum production in thousand barrels per day for countries in the Middle East in April 2006. Use it to answer question (a)

(3mks)

Country	Production in '000"
	barrels
Iran	3800
Kuwait	2550
Qatar	800
Saudi Arabia	9600
United Arab Emirates	2500
Iraq	1900

What is the difference in production between the highest and the a) (i) lowest producer (1mk)

- What is the total amount of petroleum produced in April 2006 in (ii) the region? (1mk)
- State three conditions that are necessary for the formation of petroleum
- b) (3mks) 2. The graph below shows percentage value of some export commodities from Kenya between 1999 and 2003. Use it to answer questions (a) and (b)



	(a)	(i)	What was the perceptage value of the tea exported in th	e vear
	(u)	(1)	2000?	(2mks)
		(ii)	What was the difference in the percentage values of the	()
			horticultural products and coffee exports in 1999?	(2mks)
		(iii)	Describe the trend of the value of coffee exports from 19	999 to
			2003	(3mks)
		(iv)	Explain three factors which may have led to the increase	ed export earnings from
			horticultural produce in Kenya between years 1999 and	2003
			(6mks)	
		(v)	Give three advantages of using simple line graphs to rep	resent
			data.	(3mks)
	(b)	State f	our reasons why Kenya's agricultural export earnings are	generally low
			(4mks)	
	(c)	State f	ive reasons why the common market for Eastern and sout	hern Africa
			(5mks)	
3.	(a)	Define	e the following terms	
		-	Statistics	
		-	Statistical data	
		-	Statistical methods	(6mks)
	(b)	State t	wo types of statistical data.	(2mks)
	(c)	Write	down two types ofquestionnaires.	(2mks)
4.	(a)	What f	factors must be considered in selecting methods of data co	ollection.
	<i>a</i>)	D : 66		(3mks)
	(b)	Differe	entiate between discrete dataand continuous data giving re	elevantexamples.
-	$\langle \rangle$	XX 71 / ·	(4mks)	(1 1)
5.	(a)	What 1	is sampling	(1mk)
<i>c</i>	(b)	State 3	types of sampling.	(3mks)
6.	(a)	Name	two main methods used in analyzing statistical data.	(2mks)
7	(D) (i)	what i	the significance of statisticsin geography?	(SMKS)
1.	(1) (ii)	Name What	two types of graphs that younave learnt about.	(2IIIKS)
	(11)	what a	are the advantages of using graphs named above in repres	enting statistical data? Give
Q	(i)	What i	ages. (4111KS)	
0.	(1) (ii)	State f	is a questionnane:	atistical data
	(11)	State 1	(4mks)	atistical data.
	(iii)	Explai	n oral interview method	(2mks)
9	Explai	n the fo	llowing methods of datarecording	(211113)
<i>.</i>	-	Tabula	ation	
	_	Photos	graphing	
	-	Tape r	ecording	
	-	Tallyin	ng	
10.	What i	s data?		(2mks)
11.	Marks	72, 60,	65, 70, 65, 80, 65, 70, 80, 84, 63, 75, 63, 71, 74	· /
	Use the	e data a	bove to find out mean and mode.	(4mks)
12.	With the	he help	of data above explain how median is obtained.	(3mks)
		-	-	

MAP	WORK	K			
1.	Study	the ma	ap of Taita Hills (1:50,000) sheet 189/4 provided and answer	the following question	IS
	(a)	(i)	What is the bearing of the peak of Mwatunga hill in grid	square	
			3214 from the water tank in grid square 2619?	(2mks)	
		(ii)	What is the length in kilometers of the section of the Mwa	tate – Voi railway line	in the
			south – eastern part of the map? (2mks)		
	(b)	Draw	v a rectangle measuring 16cm by 12 cm to represents the area	l	
		enclo	osed by the Eastings 24 and 40 and Northings 20 and 30	(1 mk)	
	0	n the re	ectangle mark and name the following features.		
	-	Mgai	nge hills	(1 mk)	
	_	A roo	ck out cron	(1 mk)	
	_		veather road bound surface	(1 mk)	
		Rive	r Ruhia	(1 mk)	
		Rong	te forest	(1 mk)	
	(c) -	Liein	g evidence from the man explain three factors that have favo	(I IIIK)	of the
	(C)	Toita	g evidence from the map, explain three factors that have fave	man (6mks)	. or the
2	Study	$\frac{1}{1}$ the main $\frac{1}{1}$	an of Nyahururu 1: 50 000 (shoot 105/4) provided and answe	map (Uniks)	000
۷.	Study		ap of Nyahururu, 1. 50,000 (sheet 105/4) provided and answe	er the Tonowing questi	OIIS
	(a)	(1)	Give the six figure grid of the junction where the road to	(D 5)	(21)
		<i>(</i>)	Ndaragwa (D 388) meets with the road to Nyeri&Nanyuki	(B5)	(2mks)
		(11)	Calculate the bearing of point X from point Y	(2mks)	
		(111)	Name three physical features found along the line X Y	(3mks)	
	(b)	(i)	Draw a square 12 cm by 12 cm to represent the area enclo	osed by	
			the Easting 10 and northing 10 to the North-eastern part	t of the	
			map	(1mk)	
		(ii)	On the square, mark and label		
		•	The main river	(1mk)	
		•	All weather loose surface road	(1mk)	
		•	A forest	(1mk)	
	(\mathbf{c})	Citin	revidence from the man explain two	(TIIK)	
	(0)	(i)	Physical factors that may have influenced the location of	Nyahururu town (4mks	2)
		(i) (ii)	Factors that favour saw milling in the area covered by the	e map (4mks	s)
		(11)		p (<i>,</i> ,
3.	Study	the ma	ap of Taita Hills (150: 50,000sheet 189\4) to answer the follo	owing	
	quest	ions.			
	a)	What	t is the approximate height of the hill at the grid square 3926.	(2mks)	1 0
	b)	Meas	sure the length of all weather 6 to roads (bound surface) from	Wundanyi to southern	edge of
		the a	rea covered by the map. (2mks)		
	c)	Citin	g evidence from the map describe the relief of the area show	n.(5mks)	
	d)	State	differences between a map and a plan.	(2mks)	
	e)	Expl	ain two importance of scale in maps.	(2mks)	
4.	Study	the ma	ap of Kisumu East(1:50,000) and answer the following quest	ions.	
	(a)	(i)	What is the bearing of the trigonometrical station at gridre	ference	
			081980 from the rockantelop at grid reference 071992.	(2mks)	
		(ii)	Measure the length of the allweather road (bound surface)	1321, from, the junction	on at grid
			reference 974911 to the edge of the map, grid reference 94	17967.	
			(2mks)		

	(b)	(i) (ii)	Describe the relief of the area covered by the map. Explain how relief has influenced the settlement in the area		
	(c)	Citing e	covered by the map. evidence give three economic activities carried out in the are	(8mks) ea	
	(d)	Student study o (i) (ii)	to by the map. as from the school at Masago (grid square 0681) carried out f the course of river Ombeyi. State three findings they are likely to have come up with. Give three advantages of studying rivers through field work	field (3mks)	
Fie	eld-Work	(11)	Give three advantages of studying rivers through field work		
1	You are to i) State ii) Giv iii) Ide	e two rea e two rea e two re ntify tw o	at a field study on the forest vegetation around Mau region. Asons why6 it is necessary to have route map. Asons why you need a tape measure. O challenges you might encounter during the course of the f	ield stud	(2 marks) (2 marks) ly. (2 marks)
2	Form three i) Nam ii) Give	e student he the type two ec	s of Butuk secondary school carried out a field study around be of breeze they most likely experienced. onomic activities	d lake Vi	ictoria. (1 mark)
	iii) Sta	te two n	nethods they used in recording data.	((2 marks)
3	You inten i) State tr ii) For yo schedule.(2 iii) Give tr	d to carr wo reaso ur field s 2 marks) wo adva	y out a field study on Jua Kali industries in your local mark ons why it will be necessary for you to visit the area of study study, you have prepared a work schedule. State two items y ntages of studying Jua Kali industries through field study.	tet. y in adva you could	nce. (2 marks) d include in the (2 marks)
4	Your geog i) Sta ii) Wh	graphy cl ate two o nat two f	ass intends to carry out a field study at Olkaria geothermal p bjectives of your study. follow-up activities are they likely to engage in after the stud	power pl (dy?	lant. (2 marks) (2 marks)
5	Students (i) Ider (ii) Ide (iii) Gi	of TukJo ntify two entify th ive three	owi Girls were to study the rocks around their school. methods they would use to classify the rocks around their a ree Follow up activities they would engage in. advantages of studying rocks through field work.	school.	(2 marks) (3 marks) (3 marks)
6)	Suppose i) State tv ii) What r i)During a Descrit	you wer wo hypo nethods n field stu be its for	e to carry out a field study on the influence of rainfall on ve thesis for your study. will you use to represent your data? udy students noted that the area received frontal rainfall. rmation.	getation	(2 marks) (3 marks) (4 marks)
7)	Your class i) State tv (2 marks) ii) State tv (2 mar iii) State tv (2 mar	s is planr wo objec wo adva ks) wo chara ks)	ning to carry out a field study of a river in its old stage. etives of your study. ntages of observation as a method of collecting data during acteristics of a river at the old stage that you are likely to observation	field stud serve du	dy. ring the study.

8)	You intend to carry out a field study in a coffee factory near your school.a) State three reasons why you would visit the area of study in advance.b) You have prepared a work schedule for your study. State three items you w schedule. (3 marks)	(3 marks) vould include in your
9)	Some students are planning to carry out a field study on rock weathering around their i) List four secondary sources of information they are likely to use as they prepar (4 marks)	school. re for the study.
	ii) State five activities they would carry out during the study.	(5 marks)
10	Your class carried out a field study on an industry.	
	(i) Give three reasons for dividing the class into groups.	(3marks)
	(ii) List three types of data you collected.	(3marks)
11)	i) Supposing you were to carry out a field study on rocks at the Kenyan coast	
	Why do you think sedimentary rocks are the most widespread in the coastal.	(3 marks)
	ii) Why would sampling part of the area be necessary as you conduct a field study	y. (3marks)
12)	i) State four reasons why it is necessary to conduct a reconnaissance in a field stulandscape.	udy of a volcanic
	ii) During your field study you intend to study volcanic rocks, state two problems	s you are likely to
	field study	(marks)
13	Student of a school are planning to carry out a field study in a folded region	(2111a1K5)
10	i) Identify three ways in which Fold Mountains that they would come across are	e likely to have been
	formed.	(3mks)
	ii) State four ways in which the students would prepare themselves for the study.	(4 mks)
	iii) Give three advantages of studying landforms through field work.	(3mks)
14	You are planning to carry out a field study on the course of a river.	
,	i) What would be the advantages of dividing the class into groups according to the profile of a river.	he stages of the long
	ii) What would be the disadvantages of using secondary data in this kind of field.	etudy? (6mke)
	iii) Mention three methods they would use to record their data	(3mks)
	in) Wonton the controls they would use to record their data.	(SHIKS
15)	Students of a school at the coast are planning to carry out a field study in a mangrove	forest.
	i) Formulate two objectives they would prepare for the field study.	(2mks)
	ii) Mention one type of data they would use in their field study.	(1mk)
16	Suppose you carried out a field study on a lake;	
,	(i) Give three methods you would use to collect data	(3mks)
	(ii) State three advantages of studying lakes through field work	
	(3mks)	
	(iii) Give two uses of lakes they may have identified	(2mks)
17	You are supposed to carry out a field study of an eroded area	
- · ,	(i) List down two indicators which would prove that the area is severely eroded (2mks)	
	For marking schemes and editable word format call 072435:	1706

	 (ii) Give two follow-up activities you would carry out after field work (iii)State three recommendations you would give to control soil erosion (3mks) 	(2mks)
18	 Your class is planning to visit a dairy farm within your county (i) State three objective for the study (ii) Name two methods of data collection you would use (2mks) 	(3mks)
19)	 Your class is planning to carry out a field study of a river in its old stage. (i) State three reasons why it would be necessary to pre-visit the area of study. (3mks) (ii) State four activities you would carry out to determine why deposition occurs at this s (4mks) 	tage.
20	 You intend to carry out a fieldstudy of rocks in the area around your school. (i) Show how you would use the following during the study. (a) Geographical hammer (b) Polythene bags (ii) Give three reasons why it would be necessary to conduct a reconnaissance of the are 3mks (ii) State three importance of rocks that you may identify 3mks 	1mk 1mk a of study
21)	 Students carried out a field study on rocks around their school. (i) State two objectives they formulated (ii) Give two reasons why they prepared a route map. (iii) Give two activities that the students were involved in during the field study 	(2 Mks) (2 Mks) (2 Mks)
22)	 Students of a school in Mombasa County went for a field study at the oil refinery in Mombas (i) List two methods that they used to record data. (ii) Give three problems that they might have faced during the study. 	sa. (2 marks) (3 marks)
<u>Mi</u> 1(a (ii) (b) (c)]	nerals and Rocks.) i) Distinguish between minerals and rocks .(2 marks)List three characteristics of minerals.(3 marks)Describe the formation of coral rocks.(4 marks)Explain four Ways in which sedimentary rocks are significant to the Kenyan Economy.(8 marks)	rks)
2.	 a) i) Differentiate between plutonic and volcanic rocks. ii) Describe the process of the formation of mechanically formed sedimentary rocks. iii) Give two types of mechanically formed sedimentary rocks. b) i) State three ways in which metamorphic are formed. ii) Fill in the table below. Original rock Metamorphic rock Sandstone	(2 marks) (5 marks) (2 marks) (3 marks) (3 marks)
3.	a) Give two examples of organically formed sedimentary rocks.	(2 marks)

	b) Describe how intrusive igneous rocks are formed.	(3 marks)
4.	 a) Identify three characteristics of minerals. b) What is a rock? c) i) Describe two processes through which sedimentary rocks change into metamorphic rown ii) Identify three changes that may occur in rocks when they are subjected to heat an (3 marks) d) Explain three conditions necessary for the growth of coral polyps that form coral limestor 	(3 marks) (1 marks) ocks.(6 marks) d pressure. ne rock. (6
5	marks) (a) What is a rock	(2mks)
	 (ii) Describe the following characteristics of minerals Texture Lustre 	
(b)	- Element composition (i) Name two types of hypabyssal rocks	(6mks) (2mks)
(c)	(ii) Describe three ways through which an original rock can be converted into metamorphic Explain three significances of rocks	rock (9mks) (6mks)
6.	(a) (i) State two characteristics of sedimentary rocks.	(2mks)
	(ii) Describe three ways through which sedimentary rocks are formed.(b) Describe two processes through which sedimentary rocks change into metamorphic rocks	(6mks) s.(4mks)
	(c) Give an example of each of the following types of igneous rocks.(i) Plutonic rocks	(1mk)
	(i) Hypobesal rocks	(1mk) (1mk)
	(iii) Volcanic rocks	(1mk)
	 (d) (i) Give two examples of chemically formed sedimentary focks. (ii) State five uses of rocks. (iii) Describe the following characteristics of minerals:-) (5mks)
	- Lustre	(1mk) (1mk)
	- Density (1mk)	(IIIIK)
7	(i) Distinguish between minerals and rocks	2mks
,	(ii) Give three ways in which rocks can be classified	3mks
b	(i) The table below shows types of sedimentary rocks. Fill in the blank spaces. Type Example Chloride	
	Aranaceous Coal	3mks
c	 (ii) Describe how sedimentary rocks are formed through physical processes (i) Give three changes that occur in rocks during metamorphism (ii) State two reasons why sedimentary rocks are dorminant along the Kenyan coast 	4mks 3mks 2mks
8	a) i) What is a rock?	(2 Mks)
	ii) State two reason why sedimentary rocks are wide spread in the Coastal plain	(2 Mks)
	(i) Sandstone	(1 Mk)
	(ii) Limestone	(1 Mk)
	(III) Granite	(1 Mk)

 c) Describe how extrusive ii) List two examples d) Explain three economic 	igneous rocks are formed of extrusive rocks c significance of rocks in Kenya.	(4 Mks) (2 Mks) (6 Mks)
9(a) List two methods used to d (b) List down three metamore	letermine the age of rocks. orphic processes.	(2 Marks) (3 Marks)
10. (a) Give the difference betw (b)(i) Explain the three way (ii) Outline three ways thro (c) Classify the rocks listed	ween minerals and rocks. ys through which sedimentary rocks are formed. ough which rocks become metamorphic. 1 in the table below	(2 Marks) (6 Marks) (3 Marks)
Name of Rock	Class (3 Marks)	
Marble		
Limestone		
Linestone		
(d) Explaining the meaning of t(i) Relative dating.(ii) Absolute dating.	(2 Marks) (2 Marks)	
(e) The map of Kenya belo Use it to answer the question	ow shows the distribution of major rock types in Kenya ons below.	
P.		
(i) Name the major rock typ	bes found in the area marked Q and R.	(2 Marks)
(ii) Account for the distribu	tion of rocks in the areas marked P and B.	(2 Marks)
(iii)State three ways in which	ch rocks contribute to the Kenyan economy.	(3Marks)

11. (a)Give **two** characteristics of plutonic rocks? State three ways in which rocks are significant to Kenya's economy. (b)

(2marks) (3marks)

12. 13(14a	 (a) (i) Differentiate between a mineral and a rock. (ii) Name any two intrusive igneous rocks. (b) (i) Name four characteristics of minerals. (ii) Describe three ways in which sedimentary rocks are formed. (9marks) (c) Explain four significances of rocks. (a) Name<u>two</u> examples of hypabyssal rocks. (b) Name three elements that form minerals on the earth surface. (a) Give three examples of mechanically formed sedimentary rocks (b) State two changes that occur in sedimentary rocks when they are subjected to intens (2 marks) (c) Explain B 	(2marks) (2marks) (4marks) (8marks) (2marks) (3marks) (3 marks) e heat and pressure
15a • • • () () () () () () () () () () () () ()	 a) i) Differentiate between minerals and rocks. ii) Give <i>three</i> ways in which rocks can be classified. b) i) Name one example of each of the following types of sedimentary rocks. Chlorides (1: Arenaceous Carbonaceous ii) Describe how sedimentary rocks are formed through physical processes. i) State three changes that occur in rocks during metamorphism ii) Give two reasons why sedimentary rocks are dominant along the Kenyan coast. You are planning to carry out a field study on rocks in your county. State three reasons why it would be necessary for you to conduct a reconnaissance of the Give two methods you would use to record data. (2r State <i>three</i> importance of rocks you will identify 	(2marks) (3marks) mark) (1mark) (1mark) (1mark) (4marks) (3mark) (2 marks) study area(3marks) narks) (3marks) (3marks)
<u>Min</u> 1a) b) 2. 3.	 ning Name two ports through which some minerals mined in East Africa are exported. State three ways in which mining derelicts can be reclaimed. (3 = a) State two ways through which minerals occur on the earth crust. b) Give three effects of mining on the environment. a) Name two minerals that are extracted through placer mining method. (2 marks) 	(2 marks) marks) (2 marks) (3 marks)
4. 5 6.	 (2 marks) b) State two problems facing soda ash production in Kenya. a) What is derelication ? b) Name two by-products of crude oil. (a) Describe how trona is extracted from Lake Magadi. (b) State two uses of Soda ash. a) Name two countries in Africa south of the equator where petroleum is mined. b) The diagram below shows the occurrence of petroleum in the earth's crust. 	(2 marks) (2 marks) (2 marks) (3marks) (2 marks) (2 marks)

	V V Porous	
	 (i) State three conditions necessary for the formation of petroleum. (c) Explain four effects of increased oil prices on the economies of oil importing countries. (8 marks) 	(3 marks)
7	 a) State two formations in which mineral ores occur. b) Give three reasons why coal resource in the Mui basin Kitui county has not been commerce exploited. (3mks) 	(2mks) cially
8.	 a) Name two major minerals mined in Kenya's Rift Valley. b) i) Apart from deep shaft mining, name three other mining methods. (3mks) ii) Explain how shaft mining methods is carried out. (7mks) c) State any four conditions necessary for the formation of petroleum. (4mks) d) How does Kenya stand to gain from the exploitation of petroleum in the Turkana County (9mks) 	(2mks) 7?
9.	 (a) (i) Name two minerals which occur as placer deposits (a) Describe how shaft mining is carried out (c) Explain how the following factors influence exploitation of minerals (i) Value of mineral (ii) Quality of the ore (iii) Mining methods (d) Explain four ways in which gold mining has contributed to the economy of South Africa (8 mks) (e) State four negative effects of mining on the environment 	(2 mks) (5 mks) (2 mks) (2 mks) (2 mks) (4 mks)
10	 Explain how the following processes influence the occurrence of minerals. Vulcanicity Sedimentation 	(2mks) (2mks)
11	. Use the map of Kenya below to answer questions (a)	

(a) Name the minerals mined in the areas marked P and R.	2mks	
(b) State three benefits of Gold mining to the economy of South Africa.	3mks	
12 . (a) Give <i>two</i> uses of soda ash.	(2 marks)	
(b) State <i>three</i> ways in which mining derelicts can be rehabilitated.	(3 marks)	
13 . (a) (i) What is mining.	(2 marks)	
(ii) Give four main formations in which minerals occur.		
(4 marks)		
(b) (i) Apart from shaft methods name three other types of underground mining.	(3 marks)	
(ii) Describe the shaft method of mining.	(5 marks)	
(iii) Explain four ways in which gold mining has contributed to the economy of (8 marks)	f South Africa.	
(d) State three negative effects of mining on the environment.	(3 marks)	
14. (a) State two methods of mining.	(2marks)	
(b) State three problems facing diamond mining in South Africa.	(3marks)	
15 (a) (i) Name two examples of energy minerals. (2marks)		
(ii) Describe open cast method of mining.	(4marks)	
(b) Explain four effects of mining on the environment.	(8marks)	
(c) Explain four problems facing gold mining in South Africa.	(8marks)	
(d) Give three countries which produce oil in the Middle East.	(3marks	

16(a) The diagram below shows a mining drill. Name the parts marked D, E & F.

(2 marks)



(b) State two factors necessary for the occurrence of oil. (2 marks) 17a) Name two middle East countries which produce large quantities of petroleum (2marks) b) State three problems facing petroleum exploitation in the Middle East countries (3marks) 18. a) Name two minerals mined in South Africa (2marks) b) Give three problems facing the mining industry in South Africa (3marks) **19**Give four ways in which Kenya will benefit as a result of oil discovery in Turkana county (4 marks) **20**. a)i)Name two mining methods used to mine diatomite in Kariandusi in Kenya (2marks) ii) State three formations in which mineral ores occur. (3marks) b) State four factors influencing exploitation of minerals in Kenya. (4marks) c) Explain three negative effects of mining on the environment. (6marks)

d)The diagram below shows the occurrence of petroleum in the earth's crust.



i) Name the substances in the area labelled L, M and N.
ii) Give two by-products obtained when refining crude oil.
iii) Give two by-products obtained when refining crude oil.
iii) Give two significance of mining in Kenya.
iii) State five significance of mining in Kenya.
iii) State three negative effects of mining on the physical environment
iii) Give three examples of mechanically formed sedimentary rocks.
iii) Give three heat and pressure.

For marking schemes and other forms topical questions and answers in all subjects editable word format call 0<u>724351706</u>