SECTION A

ANSWER ALL QUESTIONS

1. (a)	Name two categories of fish communities.	
	- Pelagic	
	- Demersal	
	- Anadromous.	
	- Fresh water.	
	- Salt water/ marine fish.	
	Any 2 x 1 =	2 marks
(b)	Identify three methods of fishing that are used for deep sea fishing.	
	- Trawling	
	- Long line	
	- Purse seining	
	- Drifting.	
	- Whaling/harpooning.	
	$Any 3 \times 1 =$	3 marks
. 2 (a)	Give three tourists attractions found in the lake region of Kenya.	
	- Wildlife in Ruma National Park/Impala Sanctuary/birds sanctuary at	
-	Orango /kakamega forest.	,
	- Lake Victorial./L.simbi/ox-bow lakes.	
	- Culture of the people	
	- Kisumu Museum/historical/archaeological sites.	
	- Hot sunny weather.	
	- Sport fishing.	
	- Beautiful scenery/escarpments/ granitic tors/crying stones/rift	
	valleys/hot springs//waterfalls/beaches.	
1		
	Any 3 x 1 =	3 marks
(b)	State three reasons why domestic tourism is encouraged in Kenya.	
	- For people to appreciate the need to preserve wildlife/culture.	
	- To utilize tourist facilities during low tourist season.	× 2 0
	- For the people to appreciate the tourist attraction features.	
	- To earn revenue especially during the low tourist season.	
	- To create employment opportunities/earn income to the people.	
	- For education/ research.	
	- To enhance national unity.	
	- To provide market for local products.	5
	Any 3 x 1 =	3 marks

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	3 (a)	Name three places in Kenya where geothermal energy has potential of	
		being harnessed.	
		- Mt. Longonot/ Suswa/Homa hills.	
		- Lake Bogoria/Baringo.	
		- Æburru.	
		- Menengai Crater/Mai-Mahiu.	
		- Lake Turkana.	
		- Lake Magadi.	-
			2 moules
	(1-)	Any 3 x 1 =	3 marks
	(b)	State three physical factors that have favoured high hydro-electric power	
		production in Uganda.	
		- Large volume of water from River Nile/ other rivers/L. Victoria.	
		- The Owen Falls provided a natural waterfall for power generation.	
		- High rainfall/1000mm throughout the year to enable high volume of	
		water.	
		- The regular supply of water from rivers/lakes.	
		- Presence of hard basement/rocks to form firm foundation.	
		- Presence of deep valleys/gorges.	
		- Presence of non-porous rocks / impervious prevent leakage of water.	
			_
		Any 3 x 1 =	3 marks
	4 (a)	Give two trading blocs in Africa.	C IIIII INS
	(u)		
		- Common Market for Eastern and Southern Africa (COMESA).	
		- Southern African Development Community (SADC).	
		- Economic Community of West African States (ECOWAS).	
		- East African Community (EAC).	
		Any 2 x 1 =	2 marks
	(b)	Identify three political problems facing regional trading blocs in Africa.	
		- Civil wars/insecurity in some countries.	<i>€</i>
		- Political differences among leaders.	
		- Negative publicity of goods among countries.	
			-
		- Inadequate institutional/ policy framework.	
		- Ideological differences among countries.	
		- Many African countries are still aligned to their former colonial	
		masters.	N N
1		Any 3 x 1 =	3 marks
5		List three environmental hazards that are caused by human activities.	
		- Air pollution/Toxic gases/land pollution/noise/sound pollution.	
	. 1	- floods	
		- Fires	
		- Oil spills	1
	7-7	- Desertification/drought.	
	7	- Soil erosion	
		- Landslides.	
		- Nuclear waste/radiation.	
K		- Pests.	
	. 1	Any 3 x 1 =	3 marks
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SECTION B

Answer question 6 and two other questions in this section.

6. Study the data provided below and answer the questions that follow.

Value of export earnings of selected crops from Kenya (Ksh. millions).

CROP	2012	2013	2014
TEA	101441	104648	93996
COFFEE	22271	16328	19913
SISAL	1184	1020	1325
TOTAL	124896	121996	115234

(a) (i) Draw proportional circles to represent the total export Earnings during the period of 2012 to 2014. Use diameter method.

Round totals

2012	_	125,000
2013	=	122,000
2014	-	115,000

Scale; 1cm represents 50,000 million.

Year	Value in Millions	Diameter	Radius
2012	125,000	2.5	1.3
2013	122,000	2.4	1.2
2014	115,000	2.3	1.1

OR

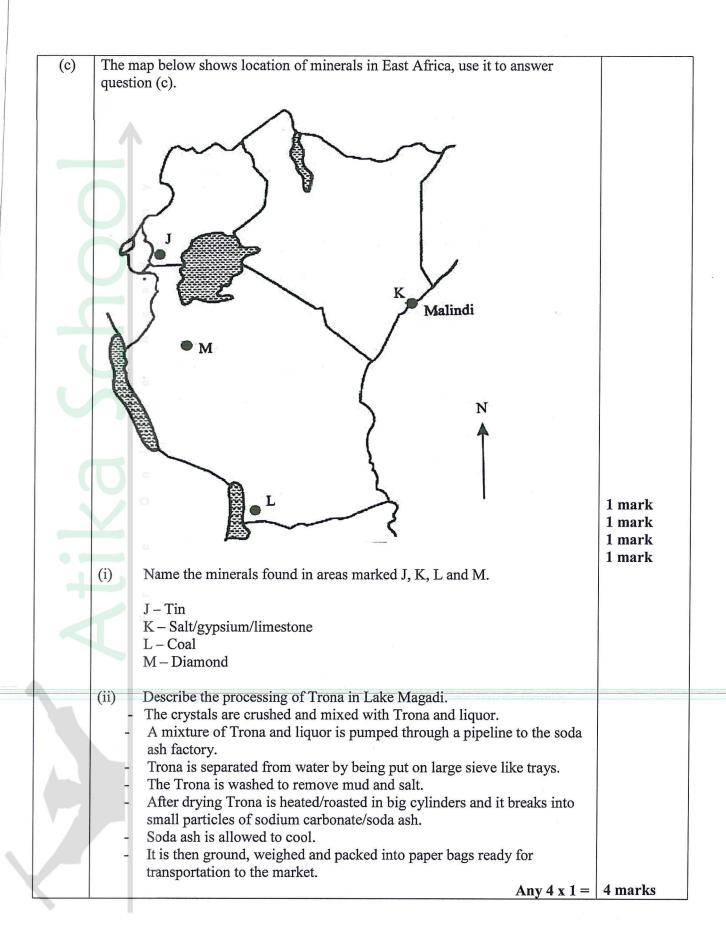
2012=<u>125,000,000,000=2.5</u> 50,000,000,000

2013=<u>122,000,000,000=2.4</u> 50,000,000,000

2014=<u>115,000,000,000.=2.3</u> 50,000,000,000

	The proportional circles showing the total export earnings for the period 2012 to 2014.	
	The total export earning for the period 2012 to 2014 (Proportional circles)	
	1.3cm 1.1cm	10 marks
	2012 2013 2014	
	(ii) Calculate the percentage decline in export value between 2012 and 2013.	
	Difference 124896 – 121996 = 2900	a = 3
	$= \frac{2900 \times 100}{121990}$	41
	$ \begin{array}{r} 124896 \\ = 2.3\% \end{array} $	2 marks
(b)	(i) What conclusion on value of exports can you make from the proportional	
(0)	circles?	
	- The total export values for the selected crops was highest in 2012.	
1	- The total export value had a decline for the consecutive years.	
	- 2014 registered the lowest export value Total exports value for the three years has very little significant	
	difference.	
7	$Any 3 \times 1 =$	3 marks
	(ii) State four disadvantages of using proportional circles to represent the export values.	
	- It is tedious to construct.	
	- It is time consuming.	
1	- It is difficult to accurately estimate/extract the actual total values from the circles.	7
	- It is difficult to compare many sets of data.	
, 7	- It is difficult to represent extreme values/very high / very low Values.	
	 It is difficult to compare values which have a small range. It is difficult to determine the trend of the values. 	
	Any 4 x 1 =	4 marks
(c)	Explain how international trade in Kenya can be improved - Kenya should improve her international transport/communication links for	
	efficient transactions.	

- Kenya is exploring new markets in order to avoid over reliance on Europ	pean
market/ traditional market Trade agreements signed by Kenya and various countries in Africa and	
America may increase volume of trade.	
- Kenya is processing some of the agricultural products before export /exp	oort
processing zone in order to add value hence increase earnings.	
The setting up of industries in the neighbouring countries by some Keny	ran
entrepreneurs is likely to increase volume of trade	
- To diversify the county's exports in order to expand market/minimize	
competition. Improving the state of security to guarantee state of traders and goods.	
- Intensifying market campaigns internationally to create awareness of the	
locally produced goods.	
- Reduce cost of production so as to compete favourably in the internation	nal
market.	,
Any 3x2=	6 marks
7. (a (i) Define the term mining.	
Mining is the extraction of valuable minerals from the earth crust.	2 marks
(ii) State four factors that influence the occurrence of minerals. - Vulcanicity leads to solidification of minerals in cracks and	
crevices.	
- Metamorphism lead to change into new mineral/formation of	
minerals.	-
- Leaching a weathering process results into concentration of mine	erals
in the crust.	
Erosion loosens minerals and transports them eventually deposit	ing
them as alluvial deposits.	.
- Sedimentation deposits, accumulates and concentrates minerals	ın
specific areas making them occur in layers, beds and seams.	ta
 Evaporation enhances crystallization leading to formation of salt Weathering exposes minerals near the earth's surface. 	is.
Any 4 x	x 1 = 4 marks
(b) Describe the open cast method of mining.	L MARIE NO
- The mineral deposits lie within a few metres from the ground.	
The unwanted material on the top layer/overburden is removed.	
- Soft mineral deposits are removed by drilling/scooping.	
- Hard minerals are removed by blasting with explosives.	
- The mineral is then scooped by excavator.	
- The mineral is loaded into Lorries /conveyor belt to be transported for	
processing.	. 1 = 5 montes
Any 5 x	x 1 = 5 marks
	2.1



(d)	 Explain three ways in which mining promotes industrialization in Kenya. Some minerals provide essential raw materials for some manufacturing industries. Minerals are exported to earn the country foreign exchange which is used for development of industries. Mining stimulates development of roads/railways which promotes industrial growth/eases movement of raw materials/finished products to industries. Mining attracts settlements leading to development of towns which attract industrial development. Mining creates employment raising the living standards of the people hence, creating a greater demand for industrial products thus promoting industrial growth. Mining has stimulated growth of related industries that supply inputs/services. Any 3x2=	6 marks
8. (a)	 (i) What is forestry? Forestry is the science of developing and cultivating forests and utilizing them. (ii) Apart from Tropical hardwood forests, name two other types of naturals forests. Temperate hardwood. Coniferous forests/temperate softwood. Montane forest. Mangrove forest. Mixed forests. Any 2 x 1 = (iii) State the problems experienced in exploitation of tropical hardwood forests. Trees take long time to mature Forests are dense/ thick. Trees do not mature at different times making harvesting difficult and expensive. The forest have mixed tree species making exploitation difficult and almost impossible. 	2 marks 2 marks
	 Tree trunks are huge, supported by buttress roots/presence of tree climbers/lianas hence difficult to exploit. The trees are heavy /bulky making transportation difficult. 	
	- Impassable roads/some parts of the forests are inaccessible. Any 5 x 1	5 marks
(b)	List the characteristics of planted forests in Kenya. - Trees appear in rows. - They have same species. - There are mainly softwoods. - They have little / no undergrowth. - They take short time to mature. - They appear in blocks. - They are mainly located in highland areas.	

	- They are scientifically managed.	
	- They are mainly exotic.	
	Any 5 x 1 =	5 marks
(c)	Explain three factors that favour forestry in Canada.	
	- The valley bottoms/ Coasts form good sites for location of paper mills/ clay	
	from valley bottoms is used for smoothening the paper surface.	
	- There are many rivers with waterfalls suitable for generation of hydro-	
	electric power for use in the industries.	
	- The low temperatures /cold climate in the highlands discourage	
	settlement/agriculture leaving forestry as the only land use.	
	The landscape is rugged with thin soils that discourage	
	agricultural/settlement activities therefore most of the mountain slopes are	
	under forests.	
	- Moderate to high precipitation throughout the year favours luxuriant growth	
	of forests.	
	- Presence of rivers which provide cheap water transport to transport logs to	
	factories/presence of snow facilitates easy movement of logs.	
	- There is ready market of forest products in Canada and USA.	
	- Rivers provide water for processing timber.	
	- The advanced technology which facilitates exploitation of forests.	
	- The advanced scientific research in forest management aids in forest	
	conservation.	
	Any 3x2=	6marks
(d)	Give five measures that the government has taken to conserve and manage	
	forests in Kenya.	
	- It has enacted /enforced laws to prohibit the cutting of trees without a licence	
	/protecting indigenous trees.	
	- It has established forest research stations to conduct research on tree species.	
0 =	- The NGOs/ Green Belt Movement/NEMA/KWS/KFS encourage protection	
	of threatened forests.	
	- It encourages people to use alternative sources of energy.	
	- The tree planting programmes /campaigns are drawn during rainy seasons	
	and implemented.	>
	- Forest are protected by establishing forests guards/development of the Nyayo	
	Tea Zones.	
	- It encourages people to use energy saving jikos.	
	- It has declared endangered forest as forest reserves gazetting forests	e e de la companya de
	- Farmers are encouraged to practice agro forestry.	
	- Farmers are encouraged to practice agro forestry.	
	- Encouraging recycling of wood products.	
4	- Creating awareness on the importance of trees.	
	- Establishment of training institutions in forestry.	
	Any5x1=	
		5 marks

9. (a)	Explain the following methods of land rehabilitation.	
9. (a)	 (i) Mulching This is the use of crop residues such as vegetable remains, plant litter, and grass and polythene sheets to cover the soil/crop. It helps to retain soil moisture, reduce soil erosion and reduce the splashing effect of rain water on soil. It increases water infiltration in to the soil by preventing it from surface runoff. When the vegetative materials decompose it produces organic matter which increases the fertility of the soil. 	
	Any 2 x2=	
h	 (ii) Bunds and gabions Bunds are soil piles across a slope constructed to control soil erosion. Bunds are also built to check surface runoff which would cause soil erosion/influence water infiltration. Gabions are wire mesh that are filled with soil, stones and other 	4 marks
9	materials. Gabions are constructed on slopes/across gullies to trap soils being carried by running water down slope. Gabions encourage vegetation growth in the trapped soil. Both are effective for controlling soil erosion/stabilizing slopes.	
	Any 3x2=	6 marks
(b)	Give three ways in which the government of Kenya is trying to rehabilitate overgrazed lands in Kenya. - Livestock extension officers move around advising farmers on the importance of keeping livestock according to the carrying capacity of the land. - Introducing exotic breeds /cross breeds to emphasize quality and not quantity. - It has established / encouraged establishment of ranches in the livestock keeping regions to improve quality of animals. - It has encouraged farmers to grow fodder /introduced nourishing grass which is drought resistant.	3 marks
(c)	(i) Name four types of irrigation practiced in Kenya.	o marks
	 Use of lifting devices. Drip irrigation. Overhead/sprinkler irrigation. Furrow/canal irrigation. Flood/ basin irrigation. Trickle irrigation Any 4x1= 	4marks
•		

	 Explain two conditions that favour irrigation farming in Kenya. Gently sloping land which permits flow of water by gravity hence reducing pumping of water to the fields Presence of clay soils/black cotton soils which retain water for longer use by crops. Presence of rivers /reservoirs/lakes which provide regular water supply making it possible to irrigate land throughout the year. High temperatures throughout the year which allows multiple cropping/continuous farming activities throughout the year. Availability of market which stimulates production. Efficient transport systems easing movement of goods and inputs. Low rainfall making irrigation necessary. Government policy to develop irrigation projects enhances production. Any 2x 2 =	4marks
(d) G	 Live the characteristics of land reclamation in Kenya. Simple methods of reclaiming land are used like digging canals/ditches to drain water. Land is reclaimed mainly from swamps/marginal lands. Irrigation is used where there is low rainfall/in arid areas. Drought resistant crops are planted. There is high evaporation of irrigation water due to high temperatures. Trees are planted 	4 marks
	he pyramids below represent population structures of Kenya and Sweden in the year them to answer question (a). Age (yrs) MALE FEMALE Age (yrs) MALE FEMALE Sweden Age (yrs) MALE FEMALE Sociation Soc	ear 2009.

- In Kenya the aging population is low/there is low life expectancy. In Sweden the aging population is high/the life expectancy is high. - In Kenya the dependency ratio is high. In Sweden the dependency ratio is low. - In Kenya, the number of infants from age 0 to 4 years is high. In Sweden the numbers of infants from age 0 to 4 years is low. - In Kenya, the number of population is low. In Sweden the working population is moderate/high. - In Kenya, the number of youthful population is high. In Sweden the number of youthful population is high. In Sweden the number of youthful population is low. - In Kenya the death rate is high. In Sweden the birth rate is low. - In Kenya the death rate is high. In Sweden the birth rate is low. - In Kenya the death rate is high. In Sweden the birth rate is low. - The fertility rate is the number of live births in a given population in a year //the number of live births per thousand women of child bearing age in a given year. (ii) What is fertility rate? - Pertility rate is the number of live births in a given population in a year //the number of birth furth per thousand women of child bearing age in a given year. (iii) Explain three factors that have contributed to the reduction in fertility rate in Kenya. - The cost of bringing up children has gone up therefore parents limit the number of children they can have. - Increased use of birth control methods has lowered the number of children women get in their life time. - Modern career opportunities have a limiting influence on a woman's fertility rate. Some employers do not want to employ women who keep going on maternity leave. - There is an increase in the number of women opting to remain single, thus reducing the number of children. - Urbanization has influenced people to have small families. - There is inadequate labour supply/manpower. - The dependency ratio is high in old age. - There is inadequate labour supply/manpower. - The dispendency ratio is high in old age. - There is inadequate local market for			
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- Explain four causes of rural rural migration in Kenya.
 - People move one rural area to another in search of employment.
 - Insecurity in some rural areas make people move to safer places.
 - Pressure on land makes people buy /look for land elsewhere and settle.
 - Setting up of government development projects may cause displacement of people who are settled elsewhere /government projects may attract settlement in those areas.
 - Pastoral communities migrate from one rural area to another in search of pasture/water for their livestock.
 - Changes in land tenure system/inheritance/land disputes cause people to move and settle elsewhere.
 - Natural calamities make people to move to safer places.
 - Transfer of services from one rural area to another/retirement/retrenchment

Any $4 \times 2 = 8 \text{ marks}$