312/2 **ENGLISH** PAPER 2 MARKING SCHEME **MARCH 2021**

THE KENYA NATIONAL EXAMINATION COUNCIL

KENYA CERTIFICATE OF SECONDARY EDUCATION **GEOGRAPHY** PAPER 2

COORDINATED MARKING SCHEME

(CONFIDENTIAL)

QUESTI ON ITEM	QUESTION	POSSIBLE RESPONSES	JUSTIFICAT ION FOR RESPONSES
1.(a)	What is dairy farming	Dairy farming is the practice of keeping animals for milk ✓	Award if cattle
atikasch@	State two physical conditions that favour dairy farming in Kenya	High to moderate rainfall of about 500-2500mm per year or constant supply of water from rivers. Deep well drained fertile volcanic loamy soils for pasture growth. Cool/warm to moderately hot conditions with temperatures ranging between 10-29°c Continuous availability of natural pastures. Gently sloping landscape which can be adulating.	
2(a)	Differentiate between fishing and	Fishing is the exploitation of water resources while fisheries are water bodies that contain fish and other resources of	
9	fisheries	interest that merit fishing 🗸 🗸	

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by Atikas@hool@Org & Elimuspace.co.ke	Give reasons why fishing is being encouraged in Kenya	Create job opportunities within the fishing sector and other related sectors like filleting industry, fertilizer making transport Farmers sell fish from the farms to earn income Fish farming is one way of diversifying the countries economies cushioning it from economic shock waves Fish farming utilizes small space of land leaving land for other economic activities, suitable for ever reducing land sizes due to population increase Fish farms are owned by individuals therefore practiced under proper land tenure systems this prevents territorial conflicts Fish farms provide fish that is quality animal protein with low cholesterol preferred by many. Fish from fish farms are exported to earn the country foreign exchange Fishing activities on farms have promoted other related industries like net making, transportation Hotels In malaria prone areas, fish farming is encouraged since it feeds on mosquito larvae, stopping lifecycle of malaria It's the best way of using waterlogged swampy areas which would otherwise be useless Large fish farms allow sport fishing Majority of food leftovers in the homes, can be feed to fish this minimises food wastage Timing or monitoring of fish maturity, can be done, there estimated time for harvesting can be determined
3a	Apart from coal name two other nonrenewable source of energy	Natural gas ✓ Petroleum/crude oil ✓ uranium ✓
by Atikasë	Give three reasons why use of coal as an industrial fuel has declined	Coal is not eco-friendly, dirty and sooty During its use, it produces greenhouse gases against the Kyoto protocol leading to climate change Industries are adopting new technology with engines which are more fuel efficient, lowering cost of production Its continuous use completely depletes it, since very few countries has it Its difficult and expensive to mine since mines are getting deeper

.co.ke		More appealing and efficient forms of energy like solar, geothermal, nuclear has been invented pushing coal down the energy pecking order. Most countries don't have coal as a fuel reserve Most mines are getting exhausted therefore industries shifting to other sources New machines being produced now don't consider coal as most common source of energy The increasing cost to transport it from its source to destination due to is bulkiness The low calorific value of coal makes other sources more appealing leading to its neglect	
& Elimuspace.co.	Name three agricultural non-food processing industries	Aloe Vera medicated processing Bee-wax/ candle processing Cotton and textile industries titex, rivertex Kakuzi sisal fibre processing Pulp and paper industries (RAIPLY WOODS timsales Pyrethrum processing industries in Nakuru Tana river leather tanning Tobacco industries mastermind Kenya, BAT Woollen processing ken knit	
Ol. Org &	Two reasons why some industries should be located near the market	It's expensive, risky to transport fragile goods to distance markets ✓ Some products are bulky, therefore market should be ✓ considered before location of the industry ✓ Some products are very perishable therefore require ready nearby market ✓	
4 tikascho	3 - 3	The transcontinental highways in Africa L- Trans Saharan highway M- great north road Town marked s - Lagos	
Enhanced by	Three advantages of road transport	Initial cost of its establishment is cheaper compared to railway and air transport It accommodates various varieties and sizes of automobiles It suits Many modes of transport vehicle foot, animal porterage Its fast over short distances Its flexible or found everywhere all other means depend on it to complete the journey Its wide spread in remote areas Unlike other means of transport, it can be used as its being constructed	

6a I)	The table below shows estimated production of selected crops in Kenya							
o.ke	Crop Producti on number of bags Maize 3890000		Crop	Production number of bags	WORKINGS	workings		
9.00	0 Beans 6100000		Maize	38900000	38900000 47500000 38900000 38900000 389000000 389000000 389000000 389000000	294.8211°		
ace	Sorghu m 1800000		Beans	6100000	$\frac{6100000}{47500000} x360$	46.23158 ⁰ ✓		
dsnu	Millet 700,000		Sorghum	1800000	1800000 47500000 x360	13.64211 ⁰ 5.305263 ⁰		
Elin			Millet	700,000	⁷⁰⁰⁰⁰⁰ 47500000 x360	✓		
8		Workings		47500000				
Englanced by Atikaschool. Org & Elimuspace.co.k	Apart from pie chart name two other statistical methods that	SE 20 Compoun Divided r Proportio	ed bar graectangle	13.64210526 46.23157895			√ ∠ COR	CULATIONS IMK RECT SEGMENT / 4MK
7	can be used to represent the data	_						

	of using pie charts to represent statistical data	From the pie chart its difficult to extract exact value of commodity if the total is not shown. Involves a lot of calculations taking time which could be used for answering other questions.	
]	represent statistical data	answering other questions ✓	
		Ite difficult for a nia about to above the above and in the trace of af	1
		Its difficult for a pie chart to show the changed in the trend of	
		production Its difficult to measure and represent small angles with desimal	
		Its difficult to measure and represent small angles with decimal	
		points ✓	
		It works on the agreed belief that any circle should be 360° which is a mathematical concent without giving reasons why its	
		which is a mathematical concept without giving reasons why its so ✓	
		Its only suitable when few segments are to be drawn but may be	
		impossible to represent if they are very many The reasons are	
		not given why the circle should be 5cm radius when other	
		measurements are used segments are the same√	
	Explain how the		Rules invented
Į	following social factors		by societies to
j	influence agriculture		regulate
			behaviour
			/property rights
]	Land tenure system	Community owned land has many restrictions in what the land	
		should be used for, all set traditions must be followed \checkmark Land is	
		used as security or collateral to loans to be used in farming	
		which can only happen on fully owned land Land which if fully owned with title deeds can influence establishment of long-term	
		farming projects like irrigation schemes, which cannot take place	
		on land which is not fully owned ✓	
		Land which is not fully owned most cases are poorly maintained	
		in terms of soils fertility leading to low productions ✓	
		Some land tenure systems prevent land subdivisions like	
		leaseholds ✓	
•		Disasters like locust's drought are believed to be traditionally	
		castigated therefore traditional remedy is sort✓	
		It's a taboo to plant some crops and rare some animals It's a	
		taboo to sell food stuffs you will be termed an outcast√ It's a	
		tradition to have many wives and children purely for labour	
		Some communities rely on animal labour during ploughing which may hinder when some are sick ✓	
		Some traditional crops encourage monoculture ✓	
		-	
		Some traditional festivals require certain foodstuffs which must	
		be planted that year✓	

Give five problems facing plantation farming in Kenya	Muslims belief that the pigs is unclean animal therefore its not reared or eaten Muslims regard a cow as sacred therefore it is kept for this purpose not meat and milk. Some days of the week are holy days for some religions its set aside for worshiping not farm work this has delayed timely administration of agricultural practices like SDA, MUSLIMS and protectants. Some religions are known to favour soya beans to replace tea because of its addictive nature. Some religious groups are vegetarians. There is a belief that crops do well not because of proper farming practices but because of the hand of GOD, this has necessitated giving tithes in some churches for farm produce. Common pests feed on crops lowering yields. Countries enjoying comparative advantage in production of some plantation crops export cheap products to Kenya local industries can't compet. Diseased attack crops completely destroying them Fertile soils on which plantations grow encourages rapid growth of weeds which takes away nutrients. High or excess rainfall/drought lowers yields. Inadequate financial capital hinders important farm operations. Muddy impassable roads make transporting of products to the factory expensive. Plantation farming takes long on the farm using same nutrients year in year out exhausting the soil. Plantations like sugarcane are affected by fire outbreaks during dry seasons. Some plantations are attacked by frost in some seasons. Some trade agreements in some regional trading blocks allows conditions that makes it difficult for some firms to make profit. Unstable conditions on the world market like price, terms of trade affect proper planning.	
Differentiate between forest and forestry	Forest is continuous growth of trees and undergrowth covering large tract of land while forestry is the practice of developing and managing forest	

7b	Explain four factors	Areas that receive high rainfall have continuous forest cover	Give all
	influencing	than areas receiving low intermittent rainfall which have	factor
	distribution of natural	scattered trees 🗸	ranging from
	forest in	Areas which are gazetted are heavily forested since trees grow	physical
	Kenya	without much human interference $\checkmark\checkmark$	human,
		Cool to warm moderate temperature conditions favour many	cultural
as a		forest tree species 🗸	
		Deep fertile well drained soils support growth of many tree species since they allow roots to penetrate deep into the ground	
		than thin sandy soils \checkmark	
0		High demand for wood, timber posts has led to massive	
S		deforestation $\checkmark\checkmark$	
ai		Increase in population is putting more pressure on the amount	
9		o0fr land that should be cultivated for food and general	
36		settlement√√	
200		Natural forest fires caused by lightening, honey harvesters	
25		destroy forests 🗸	
3		Prolonged drought sometimes trees fail to completely recover	
2		when rain season resumes 🗸	
2		Saline soils support very few tree species because of	
		complicated physiographic process like the mangroves \checkmark	
Щ		Very steep slopes are covered by trees since steep slopes don't	
~ X		support human settlement ✓✓	
9		Wild animals too, are heavy consumers of trees they break them	
6		down for food, this deplete s trees $\checkmark\checkmark$	
Org & Elimuspace.co.	8mks		
7b)	Name threetypes of	Angiosperms ✓	Unless the
0	hard woods 2marks		questions
Ö		Deciduous	asked
2		Evergreen 🗸	students to
3			give examples
2			give examples
19	Examples	Bamboo ✓	
		Camphor ✓	
11		Coconut ✓	
V		Ebony ✓	
		Elgon teak ✓	
2		Eucalyptus 🗸	
7		Jacaranda 🗸	
0		Mangrove Morn cole /	
$\overline{\mathbf{Q}}$		Meru oak ✓	
S		Mohagony ✓ Nandi flame ✓	
Ċ		Rosewood ✓	
a		Sapele ✓	
7		Umbrella tree ✓	
Enhanced by At			
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7c	Give four	Majority of the trees are softwoods ✓	1x4
	characteristics of	Mature trees produce cones with waxy barks ✓	
	coniferous forests	Most of the trees are evergreen few deciduous ✓	
		Most trees have straight trunks ✓	
		Most trees have very shallow roots ✓	,
		Species occur in pure stands \checkmark	4
d١		The general shape of the trees is conical shape \checkmark	$\overline{4}$
		The trees have narrow needle like leaves \checkmark	
•		The trees have thick barks \checkmark	
		Tree have no undergrowth due to resin \checkmark	
3		Trees take long to mature ✓	
		Trunks and branches are flexible to allow snow fall ✓	
<u>ņ </u>	Empleia form fortons		
d o	Explain four factors	Elephants are heavy feeders their increase in population can clear	
<u>a</u>		substantial part of forest 🗸 🗸	
0		Emerging new diseases which require alternative drugs and	
S	cover in	management strategies Government policy of gazettement has allowed settlement and	
2	Kenya	cultivation in the forested area \checkmark	
		Human population pressure on land and forest resource has led to decline of this area $\checkmark\checkmark$	
		Illegal logging of trees has led to clearing some parts of	
Ц		forest	
X		Overexploitations for firewood and timber has led to extinction	
2 0		of some species $\checkmark\checkmark$	
		Prolonged drought makes trees to die $\checkmark\checkmark$	
9)		r rolonged drought makes nees to die	8
Jrg & Ellmuspace.co.k			8
(a)	Define the term wildlife	These are plants and animals existing in its natural habitat	0
		$\checkmark\checkmark$	
S(ii)	Name three animals	Buffalo√	
	that are members of the	Elephant✓	
	big five in Kenya	Leopard✓	
5	oig live in Renya	Lion✓	
S		Rhino✓	
10			
(b)	Explain ways in which	Clearing of bushes, burning reduces wild animal pasture making	
	human	most of them to starve to death \checkmark	
T		Excess water stored for irrigation interferes with natural flow and	
	wildlife	wildlife downstream ✓	
	wilding		
0'		Excessive exploitation of fisheries resources interferes with	
		growth of fish some extinct $\checkmark\checkmark$	
0		Forests is often cleared for settlement and agriculture Game	
ũ		parks allow domestic grazing which often depletes pasture	
5		meant for wild species To describe your fivers to dispose industrial spectes of an activity	
Ē		Industries use rivers to dispose industrial wastes often pollute	
		aquatic environment killing majority of water-based animals	
2		Mining activities are known to destroy soils and vegetation	
Ennanced by Atë		Overfishing may extract young fish which leads to depletion of	
		some marine river ponds and lacustrine fish resources	
4		Vegetation is destroyed through cutting of trees for timber or	
		wood 🗸	

	Explain three effects of adverse climatic conditions on wildlife in Kenya	Climate change leads to flooding which destroys river lake and marine habitats aquatic animals are displaced takes time to stabilize Climatic change in temperature levels makes some plants to completely shift altitude-wise where they re-establish themselves	
o.ke		Fire outbreaks caused by lightening destroys thousands of hectors of vegetation displacing birds, killing animals. ✓ Flash flood in desert region are know to cause massive erosion than buries animals in sand ✓ ✓	
22.		Hailstone occurrence are known to destroy leaves, kill thousands of birds and small animals	
<i>6</i> 9		Persisted temperature inversion in valley's causes frost which interferes with growth of trees	
spa		Prolonged drought lead to acute shortage of pasture some animals die while others migrate to other safer areas Prolonged drought makes some plants to die some fail to recover	
limu		leading to their extinction \checkmark Strong winds like harmattans are known to break and uproot trees \checkmark \checkmark	
8		Desire for proper accessibility in our wildlife areas has led to massive construction of roads airstrips which have opened up the interior 🗸 Park entry fees is a source of revenue to county and national governments 🗸 Some wildlife products like wood, skin bones are important raw materials for industries 🗸 Wild animals are major tourist attractions which earns the country foreign exchange this raises living standards 🗸 Wild life in privately owned game ranges are slaughtered for game	
y Atikası		meat, at times exported, and sold in hotels to earn income Wild life related tourist activities promote other sectors of the economy like sportfishing, agricultural sector due to demand for food Wildlife provides avenues for scientific research which improve the knowledge sphere on wildlife Wildlife provides the best alternative use of would otherwise be waste marginal land profitably	
	•	Crude oil ✓ ✓ Electronics	
9	Kenya	Fertilizers ✓✓	
CE		Foot ware/shoes✓✓	
Enhanced		Furniture Iron and steel Iron and st	
4		Machinery and machines ✓✓ Motor vehicles ✓✓	
Er		Paper Pharmaceuticals Rubber/tyres	
		Textiles 🗸 🗸	

	Give measures Kenya has taken to reduce unfavourable balance of trade	Adopt ISO standardization procedures on goods earmarked for exports Carry out massive import substitution processes Create more avenues foe invisible trade like tourism	
	or trade	technology and service industry 🗸 Create new trade partners that massively complement each other's disparity in resources 🗸	
co.k		Establish commercial attachés on external to carry out massive campaign, and advertisement in search of new markets for Kenyan products 🗸 🗸	
schooladorg & Elimuspace.co.ke		Establish export processing zones ✓ ✓ Improve efficiency, in the transportation networks to cut down in the cost of production internally ✓ ✓ Insist on importation of capital goods ✓ ✓ Insist on manufacturing of quality exports products that withstand competition on world market ✓ ✓ Intensify diversification of economic avenues of export producing industries ✓ ✓	
s Elin		Limit importation of luxury products that don't add value in the production chain, impose high tax. Massive integration of technology like computerised run systems, robots for 24hr nonstop labour free production	
Org 8		Reduce taxation on raw materials to make goods oriented export market Venture in the production of goods that our country enjoys massive comparative advantage in their production	
9(b)	Explain three factors that influence internal trade in Kenya	Agro-based trade is heavily affected by weather conditions which breaks down chain of distribution Culture insists on production of same goods for cultural satisfaction neglecting other goods this reduces market diversity	
B		Global pandemics like corona outbreak limits internal travelling and purchasing power, and closure of some business Government based stimulus packages, provision of per sector-interest free loan facilities more often boost trade Low purchasing power of Kenyan population limits production	
by At		of some goods 🗸 Making available all forms of capital, financial, human, technological, and mechanical on local market 🗸	
Enhanced by Atil		Similarity in goods produced induces competition leaving the market potential un-utilized Transportation networks may limit or enhance movement of goods to and from the market, this narrows the market	
nhar		Various government policies like 100% tax submission and declaration, long process of acquiring business permits hinder trade ✓✓	
H			

		Kenya ✓ Uganda ✓	
	of economic community of west African states (ECOWAS)	Develop and promote transport and communication links like roads railways to facilitate movement of goods and people Harmonize economic and financial policies Promote social political interactions and mutual development To coordinate matters meaningful research and adopt sustainable policies To create economic and monetary union To eliminate useless traded barriers and regulate sustainable ones To promote developments and social integration To promote trade among member states	
& E	which member states have benefited from formations of regional trading blocs in Africa	Agro based trade has really benefited from ready market of agricultural products this has boosted agriculture sector Common market created within the trading blocs have provides access to variety of good which would otherwise be unavailable Financed trade among member states expanding markets for locally produced goods It has helped to reduce tariffs on goods produced by member states. Promoted industrial development by availing raw materials and market for finished good Trading blocs has allowed countries to specialize depending of who enjoys the highest comparative advantage	
Enhanced by a tika	MAIROBI S S	The ports marked RS and D R-Kisumu S- Dar-es Salam T- Mwanza	
(a) (ii)	Towns marked VWX	V-Kampala✓ w- Nakuru✓ x - Dodoma ✓	

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10 b	State five functions of Administrative centre ✓			
	Thika town	Agricultural collection centre ✓		
		It an industrial centre ✓		
		It's a religious centre ✓		
		It's a residential town√		
		It's a transportation and communication centre ✓		
O		It's an educational centre✓		
V		Recreational centre ✓		
6		Trading and commercial centre ✓		
10e	Explain three ways in which the port of	Both handle containerized cargo which ensures that good s have temper proof seals •		
D	Mombasa is similar to	Both ports are characterised by rich extensive hinterland which		
2	Rotterdam	help countries collect a lot of revenue 🗸		
pa	rtottoruum	Both ports are located on deep natural harbours suitable for large vessels		
S		Both ports have modern facilities with spacious harbour that		
7		enables it to handle large quantities of exports and imports		
		Mombasa port is located at the mouth river Mwachi, while Rotterdam is located at the mouth of river rhine for fresh salt less		
		water		
		The warm north Atlantic drift current, and the warm√		
-		Mozambique current ensures the both ports are ice free therefore		
Ko		used all year round✓		
		Unique features in both ports provide tourist attraction avenues		
9		making them tourist destinations ✓		
chool. হোত্ত & Elimuspace.ছো.	Explain the positive effects of urbanization	Create employment opportunities through trading \checkmark It provides market for industrial goods \checkmark		
)	to a country	People of different tribes' nationalities meet at a point this boosts national interaction \checkmark		
0		Trading activities in urban centres help generate national revenue, and income to people 🗸		
4		revenue, and medine to people		
SC		Transport routes constructed improve national accessibility from one town to another		
2		Urban centres are markets for industrial good and agricultural goods ✓✓		
Ţ		Urban centres develop social amenities which improves living		
V		standards 🗸 🗸		