## KCSE 2022 PAPER 2

## 5.2.2 Geography Paper 2 (312/2)

## SECTION A

1. (a)	State <b>three</b> conditions that are necessary for the formation of petroleum.  - Deposition of remains of flora and fauna/fossils over a ong period of time	
	- Presence of non-porous rocks underneath the deposits of flo a and fauna	
	<ul> <li>Deposition of other layers of rocks over the remains of flo a and fauna</li> <li>Compression of the remains of flora and fauna due to fold ng of the</li> </ul>	
	layers of the rocks - Presence of porous rocks  Presence of and important and the second seco	
	- Presence of sedimentary rocks  Any 3 x 1 =	3 marks
(b)	Give <b>two</b> by-products of petroleum Lubricants/grease.	
	- Tar/Bitumen/Asphalt - Wax/paraffin	
	- Sulphur - Resin/petro-chemicals	
	Any 2 x 1 =	2 marks
2. (a)	Define Agriculture. Agriculture is the practice of cultivating crops and rearing of animals.	2 marks
(b)	Give three social factors which influence agriculture - Land tenure system/land ownership - Religious beliefs/practices	
	- Cultural beliefs/practices/traditions - Level of education	
	- Gender	
	- Interaction between people leads to adoption of new foods/farming techniques.	
	Any 3 x 1 =	3 marks
3. (a)	Apart from draining of swamps, give three other methods through which land has been reclaimed in Kenya.	
	- Irrigation	
	- Tsetse fly /pest control	
	<ul><li>Planting of trees/Afforestatio</li><li>Flood control</li></ul>	
	- Controlling soil erosion	
	- Planting drought resistant crops	
	- Adding manure/fertilizers	
	Any 3 x 1 =	3 marks

- Constructing drainage pipes - Digging open ditches/canals - Pumping out the water - Planting eucalyptus trees /bananas  Any 2 x 1 = 2 marks  State four ways in which bush fires negatively affect wildlife in Eas Africa The fires destroy the habitats of animal - Animals/plants are destroyed/killed/damaged/injured by the bush fir - Fires lead to reduction of food/water for animals - The fires pollute the environment/water resource - Fires lead to migration of wild animals to other places/farmlands - Interrupts ecosystem.  Any 4 x 1 = 4 marks  5. (a) Give three factors that favour the establishment of National Parks in the semi-arid areas of Kenya Availability of large tracts of sparsely populated land - Availability of a wide variety of vegetation/savannah grasslands/shrubs which provide food for the wild animals - The harsh climatic condition/dryness that discourage farming and settlement/makes wildlife conservation the best alternative use - The type of vegetation found in such areas provide suitable habitat for wild animals			
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sectors			
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Any $3 \times 1 = 3$ marks			
		Any 3 x 1 =	3 marks

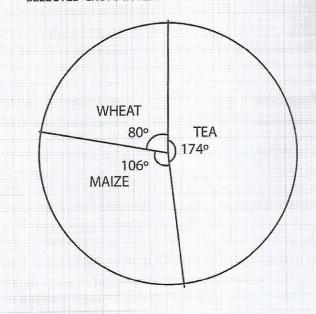
## **SECTION B**

The table	below shows	sales of sel	ected crops i	in tonnes, grov	vn in	
Kenya be	etween years 2	2015 to 2017	. Use it to a	nswer questio	n (a) and	
b(.ii)						
Crop	2015	2016	2017	Total		
Tea	399 200	473 000	439 900	1,312,100		
Maize	295 300	265 800	239 200	800,300		
Wheat	227 300	215 900	156 900	600,100		
Source: 1	Economic Sur	vey of Keny	va, 2018			
Calculate	the percentag	ge decrease i	n sales of w	heat between t	the years	
2015 and	2017					
227 300	<b>-</b> 156 900 = 7	0,400				
$=\frac{70400}{}$	-×100%					
227300	0					
	= 3	0.97%				
				An	v 2 v 1 =	2
				7311	y 2 X 1 -	2 marks
Give four	reasons that	may have le	d to the decr	ease in wheat	sales	
- Low pro	oduction of w	heat due to o	climate chan	ge/pests and		
- Low par	yments/price	fluctuation				
- Availab	ility of cheap	wheat impor	rts			
				onsumption		
				Any 4	1=	4 marks
	Kenya be b(.ii)  Crop Tea Maize Wheat Source:  Calculate 2015 and 227 300  Give four between 2 - Low prodiseases - Low para - Availab - Inadequented to the control of the	Kenya between years 2 b(.ii)  Crop 2015 Tea 399 200 Maize 295 300 Wheat 227 300 Source: Economic Sur  Calculate the percentage 2015 and 2017 227 300 - 156 900 = 76  = 70400 227300  = 3  Give four reasons that set between 2015 and 2017 - Low production of we diseases/infertile soils - Low payments/price set Availability of cheap - Inadequate market due	Kenya between years 2015 to 2017 b(.ii)  Crop 2015 2016  Tea 399 200 473 000  Maize 295 300 265 800  Wheat 227 300 215 900  Source: Economic Survey of Keny  Calculate the percentage decrease is 2015 and 2017 227 300 - 156 900 = 70,400  = 70400/227300 × 100%  = 30.97%  Give four reasons that may have lest between 2015 and 2017.  - Low production of wheat due to a diseases/infertile soils  - Low payments/price fluctuation  - Availability of cheap wheat important imadequate market due to inadequate imadequate market due to inadequate market du	Kenya between years 2015 to 2017. Use it to a b(.ii)  Crop 2015 2016 2017  Tea 399 200 473 000 439 900  Maize 295 300 265 800 239 200  Wheat 227 300 215 900 156 900  Source: Economic Survey of Kenya, 2018  Calculate the percentage decrease in sales of w. 2015 and 2017  227 300 - 156 900 = 70,400  = 70400 / 227300  Give four reasons that may have led to the decrease between 2015 and 2017.  - Low production of wheat due to climate chan diseases/infertile soils  - Low payments/price fluctuation  - Availability of cheap wheat imports	Kenya between years 2015 to 2017. Use it to answer question b(.ii)  Crop 2015 2016 2017 Total Tea 399 200 473 000 439 900 1,312,100 Maize 295 300 265 800 239 200 800,300 Wheat 227 300 215 900 156 900 600,100 Source: Economic Survey of Kenya, 2018  Calculate the percentage decrease in sales of wheat between the 2015 and 2017 227 300 - 156 900 = 70,400  = 70400/227300 ×100%  = 30.97%  Any  Give four reasons that may have led to the decrease in wheat between 2015 and 2017.  - Low production of wheat due to climate change/pests and diseases/infertile soils  - Low payments/price fluctuation  - Availability of cheap wheat imports  - Inadequate market due to inadequate wheat consumption  - Competition from other grains /food.	Crop 2015 2016 2017 Total  Tea 399 200 473 000 439 900 1,312,100  Maize 295 300 265 800 239 200 800,300  Wheat 227 300 215 900 156 900 600,100  Source: Economic Survey of Kenya, 2018  Calculate the percentage decrease in sales of wheat between the years 2015 and 2017  227 300 - 156 900 = 70,400  = 70400/227300 ×100%  = 30.97%  Any 2 x 1 =  Give four reasons that may have led to the decrease in wheat sales between 2015 and 2017.  - Low production of wheat due to climate change/pests and diseases/infertile soils  - Low payments/price fluctuation  - Availability of cheap wheat imports  - Inadequate market due to inadequate wheat consumption  -Competition from other grains /food.

(b) (i) Draw a pie chart to represent the data on selected crops sales shown on the table above.

Show your calculations.

A PIE CHART REPRESENTING TOTAL CROP SALES FOR SELECTED CROPS IN KENYA BETWEEN 2015 TO 2017



Calculations

$$Tea = \frac{1312100}{2712500} \times 360^{\circ} = 174^{\circ} / 174.14 / 174.1$$

Maize = 
$$\frac{800300}{2712500} \times 360^{\circ} = 106^{\circ} / 106.21/106.2$$

Wheat = 
$$\frac{600100}{2712500} \times 360^{\circ} = 80^{\circ} /79.64/79.6$$

Title -

Calculation of segments — Each correctly drawn segment —

3 marks

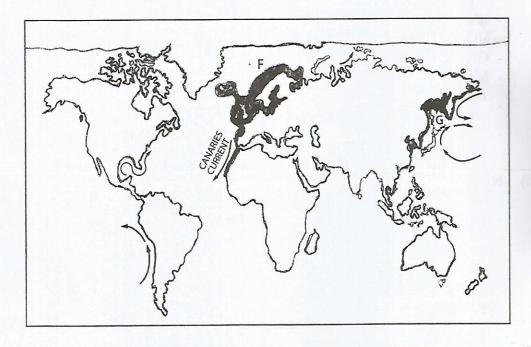
1 mark

Total =

7 marks

(ii)	Give three advantages of using a pie chart to represent Geographical data.  - It is simple to construct/draw  - It is easy to compare various components within a circle as they are all represented by angles  - Gives clear visual impression of individual components  - Makes it easy to read/interpret the proportions of individual components as related to the whole by reading their respective angles.  - It can be used to represent a wide range of data	
	Any 3 x 1 =	3 marks
(c) (i)	Name three counties in Kenya where wheat is grown on large scale.  - Uasin Gishu  - Nyandarua  - Narok  - Nakuru  - Laikipia  - Trans nzoia  - Meru	
	Any 3 x 1 =	3 marks
(ii)	<ul> <li>Explain three physical conditions that favour wheat growing in Kenya.</li> <li>Moderate rainfall/ 500 mm to 1270 mm to enhance the growth of wheat.</li> <li>Light clay /loamy soils for stalk anchorage/Deep soils to enhance root anchorage.</li> <li>Temperatures ranging from 15°C to 20°C/warm temperatures / warm conditions to facilitate growth/maturity of wheat.</li> <li>A warm/dry/sunny spell for ripening and harvesting.</li> <li>Fertile volcanic soils to sustain high production.</li> <li>Gently sloping/undulating landscape to allow proper drainage/mechanized cultivation.</li> <li>Well drained soils to enhance high production.</li> <li>High altitude of 1500-2500m to reduce disease incidence.</li> </ul> Any 3 x 2 =	6 marks
7. (a)	Name <b>two</b> categories of inland fresh water fisheries in East Africa.	
	<ul> <li>Fresh water lakes/reservoirs</li> <li>Rivers</li> <li>Fish ponds</li> <li>Swamps</li> <li>Any 2x1=</li> </ul>	2 marks

(b) The map below shows some major fishing grounds of the world. Use i to answer questions b (i) and (ii).



- (i) Identify the fishing grounds marked F and
  - F North East Atlantic G - North West Pacifi

 $2 \times 1 =$ 

2 marks

- (ii) Explain **three** physical conditions that favour fishing in the ground marked G.
  - Highly indented Coastline which provides suitable breeding grounds for fish/suitable sites for the fish ports/villages
  - Convergence of warm Oyashio and cold Kuroshio currents provide cool waters suitable for fish/upwelling of water which bring minerals/fish food close to the surfac
  - Shallow/broad continental shelf which provide favourable climatic conditions for growth of plankton/contain large quantities of fish for commercial investment/exploitation
  - The rugged/mountainous landscape limits agricultural development therefore people practice fishing as an alternative source o food/earning.
  - Cool water favour survival of numerous fish species

Any  $3 \times 2 = |6 \text{ marks}|$ 

(c) (i)	Name two methods used in small scale fishing in Kenya	
	- Harpooning/use of spears	
	- Use of gill nets	
	- Use of herbs	
	- Use of barrier traps	
	- Use of baskets	
	- Use of hand lines/hook and line	
	- Lamp and net/lampara	
	Any 2 x 1 =	2 marks
(ii)	Describe how trawling method is used in fishing	
()	- A bag shaped net is attached to a trawler/ship	
	- The net is cast into water by the trawler	
	- The net's mouth is kept open by otter boards/head beams	
	- The upper part of the net is kept afloat by corks/floa	
	- weights are used to keep the lower parts of the net at the sea bed	
	- Trawler drags the net along the sea bed	
	- After sufficient fish has been caught, the net is hauled into trawler	
	to empty the fis	
(1)	Any 5 x 1 =	5 marks
(d)	Explain four ways in which fresh water fisheries are being conserved in	
	Kenya.	
	- Restricting the disposal of untreated wastes into the fisher es/	
	reinforcing pollution laws to ensure that water remain clean for	
	survival of fis	
	- Restricting fishing to specific seasons to allow for bree ng and	
	maturing of fis	
	- Breeding fingerlings to restock overfished are	
	- Standardizing the mesh/net hole size of nets used in fish ng to ensure	
	that only the mature fish are caugh	
	- Limiting the number of fishermen through issuance of licens s	
	- Fish farming is being encouraged to ensure that there is sufficien	
	supply of fish from other sources other than the natural fis ries	
	- Carrying out research to improve quality of fish	
	Any $4 \times 2 =$	8 marks
8. (a)(i)	Identify three renewable sources of energy.	O IIIIII IKS
0. (a)(1)	- Sun/solar	
	- Wind	
	- Water	
	- Waves/tides	
	- Geothermal steam	
	- Biomass	
	- Wood/trees	
	- Drought animals.	
	$\mathbf{Any}\;3\;\mathbf{x}\;1=$	3 marks

(ii)	State fiv disadvantages of using coal as a form of energy.  Coal is exhaustible/non-renewable form of energy.  Coal is bulky to transport/costly.  Soot/smoke from coal pollutes environment.  Coal has low calorific value/low ene gy value.  Coal excavation lead to degradation of the environment/pollutes and/large open pits are left behind/dereliction.  Coal is dirty/dusty.  It is expensive to mine.  It is radioactive.  Any 5 x 1 =	5 marks
	result of short supply relative to demand.	
(ii)	Explain four ways in which energy crisis affects the economy of Kenya  Increase in oil prices triggers increase in prices of commodities/ inflation leading to low standards of living/high cost of liv ng.  Increase in prices of crude oil makes Kenya spend a lot of foreign exchange in importation lowering foreign currency reserves/brings about imbalance of trade/slows down the rate of economic growth.  Increase in oil prices leads to high cost of production leading to slow industrial growth.  Oil scarcity leads to scarcity of by-products of oil leading the scarcity of raw materials in some industries increase in fuel prices leads to an increase in transport costs.  Increase in oil prices leads to a rise in costs for farm inputs hence low agricultural production.  Increase in oil prices leads to high demand for wood fuel leading to deforestation  Increase in oil prices leads to development of alternative sources of energy to reduce overdependence.  Increase in prices has triggered prospecting/drilling of oil to ease the negative impact of crisis.	2 marks
	$\mathbf{Any} \ 4 \ \mathbf{x} \ 2 =$	8 marks
(c) (i)	Some candidates carried out a field study on uses of ene gy by sampling the households around their school.  State three reasons why the students would be divided into groups.  - To ensure active participation of all students  - To save time since different areas are covered at the same tim  - To ensure that all areas are covered if the area under study was large  - For easy control and management of students/maintain discipline of students  - For effective use of available learning resource  - To reduce fatigue among students  - To promote teamwork.	
	Any $3 \times 1 =$	3 marks

(;;)	Identify two complines to chairman that the state of the	Г
(ii)	Identify <b>two</b> sampling techniques that the students may have used during the study	
	- Stratifie	
	- Random	
	- Systematic	
	Any 2 x 1 =	2 marks
(iii)	Give two advantages of sampling the households for the study	
	- To save time	
	- To reduce bias	
	- To allow for detailed study	
	- To reduce costs.	
	2 x 1 =	2 marks
9. (a)(i)	Give three examples of Agricultural non-food processing industries in	
	Kenya.	
	- Textile/clothing production	
	- Sisal /fibre makin	
	- Leather tanning/footwear making.	
	- Wood processing/lumbering/paper manufacturing	
	- Pyrethrum processing	
	- Beeswax processing	
	- Tobacco processing/cigarette making	
	- Soap making	
	- Glue making	
	- Ofue making	
	$\mathbf{Any}3\mathbf{x}1 =$	3 marks
(ii)	State <b>fiv</b> ways in which the government policy influences location of	
()	industries in Kenya.	
	- Legislating industrial laws that restrict industrial location to given	
	Areas.	
	- Offering special concessions/financial support to industrial ts	
	towards industrial locations.	
	- Developing roads/railway lines/airports that attracts industries to a	
	given area.	
	- Developing of sources of power/hydroelectric power/geothermal.	
	- Providing security in areas where industries are meant to be	
	established/located.	
	- Government may set aside land for the location of certain industries	
	- Government may provide technical support/advise on industrial	
	Locations.	
	- Signing industrial locational agreements with other countries.	
	- The government may influence the decentralisation of industries	
	Any 5 x 1 =	5 marks

(b) (i)	Give five characteristics of the cottage industry in India.  Raw materials are mainly locally sourced/locally available Simple tools/equipment are largely used in production The level of capital investment is relatively low/requires little capital Workshops are widespread/located in homes Industries are owned by individuals/family/groups The finished products are relatively chea Products are for both domestic /external market They are labour intensive The crafts persons are highly skilled	
	Any 5 x 1 =	5 marks
(ii)	Explain three problems facing the Jua Kali industries in Kenya.  Goods face discrimination due to wrong attitude leading to low demand/competition form well established manufacturers this reduces sales  Inadequate capital for expansion leading to low production  Exploitation by middle men/business people who offer low prices /poor marketing strategies which discourage people in the industries which discourages people in industries  Poor working conditions as most work is done in the open sun/easily affected by weather change  Frequent power/ blackouts which disrupt work leading to losses  Difficulty in getting raw materials leading to low producti  Inadequate security/theft of goods  Any 3 x 2 =	6 marks
(c)	You intend to carry out a field study in an industry with the lo al environment.	
(i)	Give two sources of secondary data you will refer to before conducting the field stud .  - Textbooks/handouts - Newspapers - Magazines/periodicals - Periodicals - Journals - Audio/video tapes/photographs - Maps - Statistical abstracts	
	- Internet Any 2 x 1 =	2 marks

(ii) Identify four benefits of the industry to the local community that you are likely to find out during the stud.  - Creation of employment opportunities - Improvement of transport network/communication network - Development of social amenities - Availability of market for local produce/resources/earn income - Access to sources of power/HEP - Has led to growth of towns around industries - Formation of co-operative societies  Any 4 x 1 =   10. (a)  What is transport?  (ii) What is transport?  This is the physical movement of goods /people from one place to another.  1 x 2 =   2 marks  Name two international airports in Kenya Jomo Kenyatta International Airport - Moi International Airport - Eldoret International Airport - Kisumu international Airport - Wajir international Airport - Vair transport is faster - It is more efficient in transporting perishable goo - It is free of traffic congestion/has less congesti - Helicopters can land in remote areas - Planes can be used for activities like spraying of farms - There are fewer accidents than road transport - Air transport is more comfortable over longer distances - Helicopters can land in remote/inaccessible areas  (b) State five benefits that would result from improving the conditions of roads in rural areas of Kenya It would encourage setting up/improvement of social amenities - It would encourage effective exploitation of agricultural/ m neral/forest resources - It would lead to growth/development of urban centres - It would lead to growth/development of urban centres - It would lead to creation of more employment opportunities  Any 5 x 1 =   5 marks			
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S   (   -	<ul> <li>Explain four ways in which the Great Lakes and the St. Lawrence seaway has contributed to the economies of United States of America (USA) and Canada.</li> <li>The dams found along the route provide hydroelectric power for both domestic and industrial use</li> <li>It provides cheap/easy navigation means of transport for imports and exports encouraging trade</li> <li>The seaway has created employment opportunities in the transport Industry raising the standards of living of the people in both countries.</li> <li>It has led to the growth of ports and towns along its course. These have become focal points for various economic activities</li> <li>Due to accessibility to raw materials there has been extensive industrial development in the area</li> <li>Tariffs cha ged earn the countries income</li> <li>The lakes and the seaway are a source of fresh water for domestic/industrial use</li> <li>The seaway is a tourist attraction earning the two countries foreign</li> </ul>	