SECTION A

1. (a)	State three conditions that are now	
	State three conditions that are necessary for the formation of petroleum. - Deposition of rameira and a state of the formation of petroleum.	
	- Deposition of remains of flora and fauna over a long period of time	
	- Presence of non-porous rocks underneath the deposits of flora and fauna	
		1
	- Deposition of other layers of rocks over the remains of flora and fauna	
	- Compression of the remains of flora and fauna due to folding of the	
	- Compression of the remains of flora and fauna due to folding of the layers of the rocks - French of Portugal Market School of Portugal School of Sc	3 marks
(b)	Give two by-products of petroleum.	· marks
	- Lubricants (Cross (S)	
	- Tar/Bitumen/Asphalt	
	- Wax pareth wax	
	- Sulphur	
	- Resin/petro-chemicals	2
2 (2)	Any $2 \times 1 =$	2 marks
2. (a)	Define Agriculture.	
(b)	earling of annuals.	2 marks
(0)	- Land tenure system / Land tenure system / Land tenure system / Land tenure	1
	- Religious beliefs/practices	
	- Cultural beliefs/practices/traditions	
	- Level of education	
	- Interest us between geofte tead Any 3 x 1 =	3 marks
	adoption if new technique is forming	

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5. (a)	Apart from draining of swamps, give three other methods through which - Irrigation	
-384	land has been reclaimed in Kenya	
	- Irrigation - Irrigation	
	- Tsetse fly control / PEST Gontrol	
344	- Planting of trees/Afforestation	
	- Flood control	
(1.)	- 13th of good Sal erosita	3
(b)	Identify two methods that are used to drain swamps in Kenya - Constructing drainage pipes	3 marks
	0-10-00	o marks
	- Digging open ditches/canals	
1	- Pumping out the water Such to 1 250000	2
4.	State four ways in the Buy	rance
	State four ways in which bush fires negative affect wildlife in East Africa. Any 2 \times 1 =	2 marks
- 5	- The fires destroy the habitats of animals	
- 2	- Animals/plants are destroyed/billed/damaged by the bush fire	
	- Fires lead to reduction of food for animals	
	- The fires pollute the environment/water resources	
	Fires lead to migration of wild animals to other plants	705
5 (0)	OS TEVA	4 marks
5. (a)	three lagors that favour the establishment of National Parks in the	· marks
	semi-arid greas of Kenya.	
	- Availability of large tracts of sparsely populated land	1-145110-5-
	- Availability of a wide variety of vegetation which provide food for the wild animals	
	- The harsh climatic condition that discourage farming and	4
	settlement/makes wildlife conservation the best alternative use	1
	- The type of vegetation found in such areas provide suitable habitat for	
	wild animals	_3 /
	Any $3 \times 1 =$	3 marks

- (b) State ways in which ecotourism has led to sustainable tourism industry in Kenya.
 - Conservation of the environment/preservation of scenic beauty
 - Respect of rights and active partnership with stakeholders
 - Equitable distribution of benefits accrued for tourism
 - Respect/safeguarding of local customs/culture
 - Harmonious development of tourism sector alongside other economic sectors

Any $3 \times 1 =$

3 marks

SECTION B

6. The table below shows sales of selected crops in togenes, grown in Kenya between years 2015 to 2017. Use it to answer question (a) and b(.ii)

Crop	2015	2016	2017	Total
Tea	399 200	473 0000	439 900	1,312,100
Maize	295 300	265 890	239 200	800,300
Wheat	227 300	393 900	156 900	600,100

Source: Economic Survey of Kenya, 2018

Calculate the percentage decrease in sales of wheat between the years

(a) (i) 2015 and 2017 227 300 - 156 900

 $=\frac{70400}{227300}\times100\%$

30.97%

31/2 31.0%

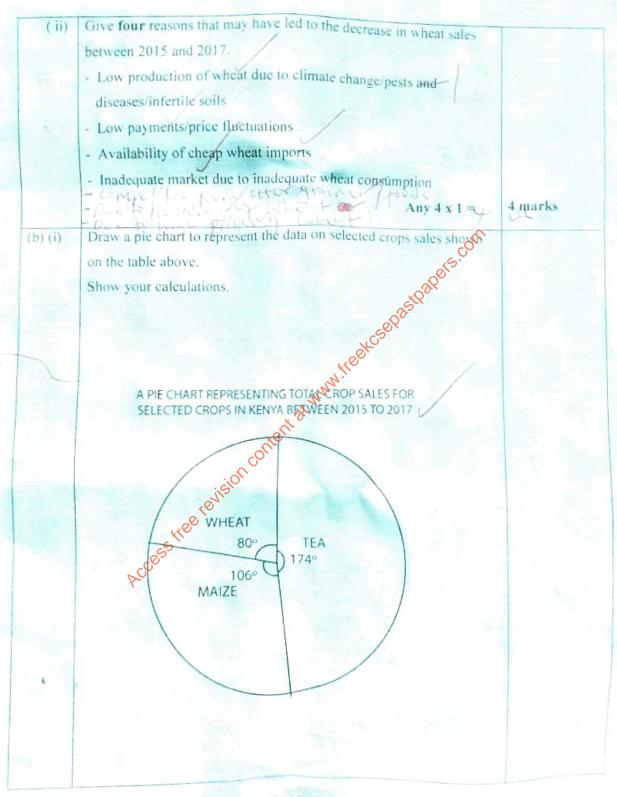
= -7:40 ×10

=30.971

Any $2 \times 1 = 2 \text{ marks}$

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(ii)	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/pessand	
	diseases/infertile soils	
	- Low payments/price fluctuations	
	between 2015 and 2017. - Low production of wheat due to climate change/personal diseases/infertile soils - Low payments/price fluctuations - Availability of cheap wheat imports - Inadequate market due to inadequate wheat consumption	
	- Inadequate market due to inadequate wheat consumption	
	Any 4 x 1 =	4 marks
(b) (i)	Draw a pie chart to represent the data on selected crops sales shown	
	on the table above.	
	Show your calculations.	
	ACCES	
1	A PIE CHART REPRESENTING TOTAL CROP SALES FOR	
	SELECTED CROPS IN KENYA BETWEEN 2015 TO 2017	A
		the Ass



	Calculations	
ittor From S (Cherry S	$Tea = \frac{1312100}{2712500} \times 360^{\circ} = 174^{\circ} / 74^{\circ} $	
Since S	Maize = $\frac{800300}{2712500} \times 360^{\circ} = 106^{\circ}$ / 106.21 / 106.2	
2 (b)	Wheat = $\frac{600100}{2712500} \times 360^{\circ} = 80^{\circ}$ 74.64 64.65 79.60 74.64 79.65 79.60 79.64 79.65 79.	
as last no		
	Each correctly drawn segment – Total =	3 marks
(ii)	Give three advantages of trong a pie chart to represent Geographical	7 marks
وري	data. - It is easy to empare various components within a circle as they are	
	represented by angles	
	- Oives clear visual impression of individual emponents - Makes it easy to assess the proportions of individual components as related to the whole by reading their respective angles	
	Any 3 x 1 =	3 marks

1.8.73	Name three counties in Kenya where wheat is grown on large scale.	
(c) (i)	Name time countries	
	- Uasin Gishu - Elgego marahet.	
1	- Casili Cisite	
	- Nyandarua	
(00	- Nydriddian	
2	- Narok	
	- Nakuru	1
	$- La + Aa = Any 3 \times 1 =$	3 marks
	- Mary Lang	
4000	- Yall - Whose that favour wheat arousing in	/
(ii)	Explain three physical conditions that favour wheat growing in	
	Kenya.	3 40
	- Moderate rainfall/ 500 mm to 1270 mm to enhance the growth of	X
	Wheat Muddets files press	5 %
	- Temperatures ranging from 15°C to 20°C/warm conditions to	4 "
	- Temperatures ranging from to	2 0
		00.3
	U.S. singning and harvesong	11.2
	- A warm/dry/sunny spell for ripening and harvesting	
	- Fertile volcanic soils to sustain high production	
	- Derrice Volcaine sons to	
	- Gently sloping/undulating landscape wallow proper	- 5
		Ichan
	drainage/mechanized cultivation	- Coci
+	The little was the same of the	
	- Let S-1/501 600 / L	6 marks
-	They was a series of the serie	recent disk
-	drainage/mechanized cultivation x of the Any 3 x 2 =	dood and
7. (a) A	Name two categories of indana	9
4	Frush watertake / Laves / Resor	15.41
		1 2 1 2
	- Rivers COSS	1 21
	200	(05)
	- Fish ponds	2
	Any 2x1 =	2 marks

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

(i) Identify the fishing grounds marked F and G

- F North East Atlantic
- G North West Pacific

 $2 \times 1 =$

2 marks

(i	i) Explain three physical conditions that favour fishing in the ground
7.	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 temperature suitable for fish/upwelling of water which brings
	minerals/fish food close to the surface was suffered whether
	- Shallow/broad/continental shell which provide favourable climatic
1	conditions for growth of planktons/contain large quantities of fish for
	commercial investment/exploitation
	- The rugged/mountainous landscape limits agricultural development
	therefore people practice fishing as an alternative sources
	Food/carning. while free sale is no merous for
	Anv $3 \times 2 = 6$ marks
(c) (i)	Name two methods used in small scale fishing in Kenya.
	- Harpooning/use of spears
	- Use of gill nets/
	- Use of herbs
1	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 with hork and lines.
	- Use of baskets
	- Use of hand lines that and line
-	- Use of lange and rule Lampera set Any 2 x 1 = 2 marks
(ii)	Describe how trawling method is used in fishing.
	- A bag snaped 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/floats
	weights are used to keep the lower parts of the net at the sea bed
-	Trawler drags the net along the sea bed

	to empty the fish			
		Maxes	Any $5 \times 1 =$	5 marks
(d)	Explain four ways in which	ch fresh water fisheries are b	eing conserved in	
	Kenya.			He aw
	- Restricting the disposal	of untreated wastes into the	fisheries to ensure	
	that water remain clean f		A CHISTIES TO CHISTIE	
		ecific seasons to allow for bre	eeding and	
	maturing of fish		7	
	- Breeding fingerlings to re	estock overfished areas	.s. co.	
	- Standardizing the mesh/n	net hole size of nets used is in	shing to ensure	
	that only the mature fish :	are caught as 1000		
	- Limiting the number of f	estock overfished areas net hole size of nets used in the size of nets	Cliaman	
	- Fish farming is being end	couraged to sure that there	i neelises	
	- Carry - 12	sources other than the natural	lisheries de L	1 07
(n)/!\	LL contract	No.	Any $4 \times 2 = 8$	marks
(a)(i)	- Sun	rces of energy.		
	- Sun & Solar Co.	in In	ace and	
	- Wind	IV II am to	Profession of	
	- Water		2 3= 9 69	
	- Waves/coes		The letter had	
	- Geogramal steam Und	leva steam		
	- Wind - Water - Waves/tyles - Geoggermal steam	king steam		
		kry steam		
	- Momass	V		
	- Wood/trees	V		

State five disadvantages of using coal as a form of energy.
 Coal is exhaustible/non-renewable form of energy
 Coal is bulk yto transport
 Soot/smoke from coal pollutes environment

mores to point le-by stated they est of he	
- spe to for exchange in ingest to I love coming revise / / for to a	ce of frede
	bh/ par hu
	(201)
- Coal has low calorific value Coal excavation lead to degradation of the environment/pollute	y Valor
Coal excavation lead to degradation of the environment/pollute	
Coal excavation lead to degradation of the environment/pollute Coal is dirty/dusty	be hand land
Coal is dirty/dusty	della helo
11 13 CANONAL	5 marks
(b) (i) What is energy crisis?	
It refers to a situation where the prices of fossil fuel rise sharply as a	
result of short supply relative to demand.	
1 x 2 =	2 marks
(ii) Explain four ways in which energy crisis affects the economy of Kenya.	,
- wences - Increase in oil prices triggers increase in prices of	- Increse in al
commodities/inflation leading to low standards of the methich cost of	and in the cost
Levels Rec living	9 hom had s
Increase in grices of crude oil makes Keny Ground a lot of facility	while in finite
Siving of the state of the stat	to town country of
about imbalance of trade/slows down the rate of economic growth	Shortage
- Increase in oil prices leads to ligh cost of production leading to slow	o menese 1 col
industrial growth	nort Jones
Oil scarcity leads to sarcity of by-products of oil leading the scarcity	In wor I for the
of raw materials income industries	(Roding 1-0
- Increase in fuel prices leads to an increase in transport costs	de pressoners
and of the state o	8 marks
Some condidates carried out a field study on uses of energy by sampling	
the households around their school.	
(i) State three reasons why the students would be divided into groups.	
- To ensure active participation of all students	A STATE OF THE STA
- To save time since different areas are covered at the same time	
- To ensure that all areas are covered if the area under study was large/A	land detalled
- For easy control and management of students/maintain discipline of	(Vale)
students	

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3 - Prompe team works

		Any 3 x 1 =	3 marks
(ii)	Identify two sampling techniques that the students may have during the study	used	
	- Stratified		
	- Random		
	- Systematic	2	
	A	ny 2 x 1 =	2 marks
(iii)	Give two advantage, of sampling the households for the study		
	- To save time	COLL	
	- To reduce bias	A. S.	1-3-5
	- To allow for detailed study		
	- To reduce costs.		7
	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
). (a)(i)	Give three examples of Agricultural non-food processing indu Kenya. - Textile/clothing production - Sisal (fibre making	istries in	
	Kenya.		
	- Textile/clothing production		
	- Sisal fibre making Confidence		
	- Leather tanning/footweat making.	1	
	- Wood processing/lux/bering/paper manufacturing		
	- Pyrethrum processing		
	- Beeswax pocessing	46 g	
-	A)	ny 3 x 1 =	3 marks
	Till Walking /	.,	

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(ii)	State five 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 industrialists
	towards industrial locations Communication System
	- Developing roads/railway lines/airports that attracts industries to a
1-2	given area
	- Developing of sources of power/hydroelectric power/geothermal
	- Providing security in areas where industries are meant by be
	established/located (1997)
	- Government may set aside land for the location of certain industries - Government may provide technical support advise on industrial
	- Signing industrial locational agreements with other countries
	- Signing industrial locational agreements with other countries
	Any 5 x 1 5 marks
(b) (i)	Give five characteristics of the cottage industry in India.
	- Raw materials are materials locally sourced/locally available Regulation
	- Simple tools/equipment are largely used in production
	- The level of capital investment is relatively low requires little eapital
	- Workshops are widespread/located in homes Workshops are widespread/located in homes
	- Industries are owned by individuals/family/groups
	- The finished products are relatively cheap
	Products are for both domestic and external market
	- They are labour intensive
	- The crafts persons are highly skilled
	Any $5 \times 1 = 5 \text{ marks} $
	5/

7.00	
(ii)	Explain three problems facing the Jua Kali industries in Kenya.
	- Goods tage discrimination due to wrong attitude leading to low
	demand/competition form well established manufacturers this reduces
	- Inadequate capital for expansion leading to low production
	- Exploitation by middle men/business people who offer low prices
	which discourages people in industries
	- Poor working conditions as most work is done in the open sun/easily
	affected by weather changes
	- Frequent power, blackouts which disrupt work reading to losses
	- Difficulty in getting raw materials leading to low production
	Any $3 \times 2 = 6$ marks
(c)	You intend to carry out a field study in an industry with the local
	environment.
(i	Give two sources a Secondary data you will refer to before conducting
	the field study will refer to before conducting
	- Textbooks
	- Newspapers
	- Magazines
	- Periodicals
	- Journals
	- Audio/video tapes / hateger S
	- Audio/video tapes / hatoger 5 - Maps - State sheet a made
	Any $2 \times 1 = 2 \text{ marks}$

	(ii)	Identify four benefits of the industry to the local community that you	1
		are likely to find out during the study.	
		- Creation of employment opportunities / In Private Light Standards Eura IV	(
		- Improvement of transport network Communication	ı
		- Development of social amenities	
		- Availability of market for local produce/resources	ì
		- Access to sources of power/HEP	
	17	-110 C 0 C C C C C C C C C C C C C C C C	c
	10. (a) (i)	What's transport?	
	19.00	This is the physical movement of goods and people from one place to	
	30	another.	
		$1 \times 2 = 2 \text{ marks}$	
		excs	
	(ii)	Name two international airports in Kanya.	
	1	nother. 1 x 2 = 2 marks Name two international airports in Kenya. Jomo Kenyatta International Airport Moi International Airport	
		- Moi International Airport	
1	3	- Eldoret International Asport	
1		- Kisumu international Airport	
		- Wajir international airport	
2		- Wajir international disport - Islate of terms have the form have the form of the form o	
1		Any $2 \times 1 = 2 \text{ marks}$	
		SSSS TO THE PARTY OF THE PARTY	
	(iii)	The four advantages of air transport over road transport.	
P		- Air transport is faster	
		- It is more efficient in transporting perishable goods	
		- It is free of traffic congestion / Less Congestion	
		- Helicopters can land in remote areas mnacress, icc areas	
		- Planes can be used for activities like spraying of farms emergency Service	
		- There are fewer accidents than road/transport	

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Turn over

	- Air transport is more comfortable over longer distances Any 4 x 1 =	4 marks
	4	8
(b)	State five benefits that would result from improving the conditions of roads in rural areas of Kenya. - It would encourage setting up of industries/growth of tourism - It would encourage the setting up/improvement of social amenities - It would attract investors/encourage diverse investments/improve trade - It would encourage effective exploitation of agricultural mineral/forest resources - It would lead to growth/development of urban contres - It would enhance access to security services - It would lead to creation of more employment opportunities Any 5 x 1 =	Sur

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Gryc

	The sketch map below shows the Great Lakes and the St. Lawrence sea	way. Use it
	answer question (c)	
		4
	Α.	
	E .	Ŧ
	CANADA	
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	many fine	1
	A POR A CONTRACTOR OF THE PARTY	+
		-
		3
	7-	
	KI OSA USA	-
	ind.	
	a way.	
	ent at want.	
	Name: content at www.	
	Name: Content at www.	
	(i) The lake grocked J	Lmark
	- L. Seperior	1 mark
	- L. Soperior (ii) The river marked K	
	- L. Seperior	1 mark
	- L. Soperior (ii) The river marked K	
	- L. Soperior (ii) The river marked K River Ottawa	
	- L. Soperior (ii) The river marked K (iii) The ports marked L and M	
	- L. Soperior (ii) The Priver marked K (iii) The ports marked L and M L - Buffalo	1 mark
	- L. Soperior (ii) The river marked K (iii) The ports marked L and M	1 mark
	- L. Roperior (ii) The river marked K River Ottawa (iii) The ports marked L and M L - Buffalo M - Quebec	1 mark
d) /	- L. Soperior (ii) The river marked K (iii) The ports marked L and M L - Buffalo M - Quebec Explain four ways in which the Great Lakes and the St. Lawrence	1 mark
d)	- L. Roperior (ii) The river marked K River Ottawa (iii) The ports marked L and M L - Buffalo M - Quebec	1 mark

- The dams found along the route provide hydroelectric power for both domestic and industrial use
- It provides cheap/easy navigation means of transport for imports and exports encouraging trade
- The seaway has created employment opportunities in the transport Industry raising the standards of living of the people in both countries.
- It has led to the growth of ports and towns along its course. These
 have become focal points for various economic activities
- Due to accessibility to raw materials there has been extensive industrial development in the area
- Tariffs charged earn the countries income
- The lakes and the seaway are a source of fresh water for domestic industrial use

Any 4 x 2 =

8 marks