

SUKELLEMO PRE-MOCK JUNE 2022

GEOGRAPHY PAPER 2 MARKING SCHEME

SECTION A

- 1.a) What is Human Environment? Deals with the different activities that people perform on the earth's surface. (2 marks)
 b) Areas of study under Human Environment. (3 marks)
 - Farming
- Fishing
- Mining
- Transport
- Trade e.t.c.
- 2. The substances
 - L Gas
 - M Oil/petroleum
 - N Water
- b) Two by-products obtained from crude oil.
- Wax
- Bitumen/Tar/Pitch/Asphalt
- Sulphur
- Lubrication oil
- Petro-chemical
- 3. Three environmental conditions which favour commercial beef farming.
- presence of undulating landscape.
- Adequate water supply.
- Large trucks of land/expansive tracts of land.
- Adequate pasture for the animals.
- Tsetse-fly free areas.

(3x1 = 3 marks)



- b) Name two exotic breeds of cattle reared in commercial ranches in Kenya. (2 marks)
- Aberdare Angus
- Charolois
- S
- Galloway
- Santa Gertrudis

(2x1 = 2 marks)

- 4. Two reasons why wildlife is encouraged in Kenya. (2 marks)
- To promote tourism/tourists
- for posterity/future generation
- to generate foreign exchange/revenue
- To protect the endangered species (both plant and animal)
- For education/research purposes
- for aesthetic value/beauty.
- b) Apart from national parks, outline three other ways in which wildlife is conserved in Kenya.

(3 marks)

- Banning of trade in wildlife products.
- Encouraging individuals to set up game ranches.
- Employing anti-poaching unit/forest rangers in the game parks.
- Protecting endangered species in orphanages/sanctuaries/natural reserves.
- Setting up a game reserve/forest reserves.
- Promotion of peaceful co-existence between wildlife and human beings.

(3 marks)

- 5.a) Two polders created:-
- marketward polder
- Wieringer meer polder
- North Eastern polder
- Eastern Flevoland polder
- South Flevoland



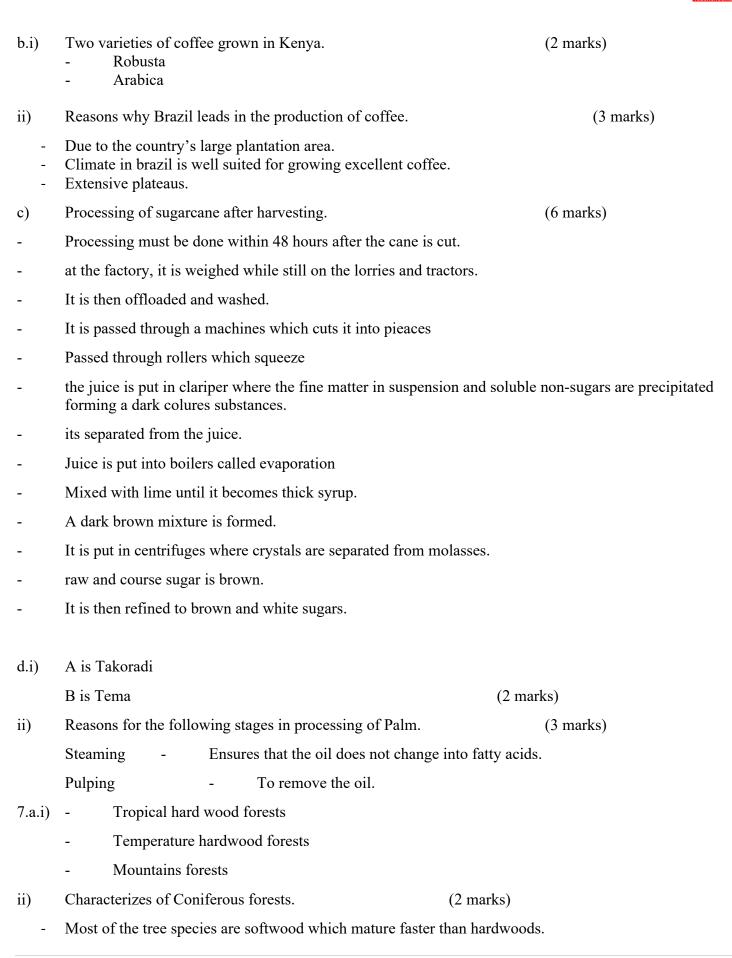
- b) Three ways in which the salivity of the polders is reduced.
- Chemicals are applied to lower salts in the soil.
- Fresh water is flushed to the soils to remove and dilute the excess salts.
- Reeds re planted to use up the excess salts.
- There is continuous pumping of water from the polders.

6.	Year	Totals	Absol	ute	
	1995 `	912	900		
	1998	1445	1,000		31.6 = 32
	Year	Radii of the ci	rcle		
	1995	$30 \div 10$	= 3	cm	
	1998	32 ÷ 10	= 3.2	cm	
	1995 – Calcul	ations for the s	egments	5	
	Maize	<u>224 x 360°</u> 912	=	88.4°	
	Coffee	<u>168 x 360°</u> 912	=	66.30	
	Tea	<u>320 x 360°</u> 912	=	126.30	
	Others	<u>200 x 360°</u> 912	=	78.9°	
	1998				
	Maize	<u>286 x 360°</u> 1,445	=	71.3°	
	Coffee	<u>310 x 360°</u> 1,445	=	96.7°	
	Tea	<u>388 x 350</u> ° 1,445	=	96.7°	
	Others	<u>461 x 361</u> 1,445	=	114.9°	

Proportional Divided Circles showing Crop exports from Kenya Between 1915 and 1998.

1995

1918



Common trees are sparse, fir, pine and

- Most species are ever green
- Trees have this needle-like leaves
- Trees occur in big pure stands -
- Have little undergrowth
- Trees are more stunted towards the polar side. _
- Factors that favour the exploitation of softwoods in Canada. **b**)
- Presence of mild winters with is-free waters in British Colombia making it possible to transport logs throughout the year.
- Plenty of Hydro Electric Power provided by many rivers. -
- Rivers provide water needed to convert timber into pulp and paper.
- Cheap and efficient transport system 9water and land) is available to ferry logs to the factories and finished products to the market.
- Presence of major ports allow the exportation of timber to U.S.A., Europe and Japan e.g. Quebec. -
- There is a high demand for forest products locally and internationally. -
- Indigenous softwood tree species in Kenya. c.i)
- Junifer (Kenya Cedar)
- Podo
- African Penid -
- Bamboo _
- Problems facing forestry in Kenya. ii)
 - Large tracts of forest are destroyed by pests such as Aphids.
 - Forest fires caused by honey harvesters, game poachers, illegal loggers, charcoal burners etc _
 - Over-explatation leading to soil erosion.
- d.i) Objectives of the study.
 - To find out the type of forest Karura is.
 - To find out the uses of forest products from the forest.
 - To find out the tree species found in Karura forest.
- Sampling techniques ii)
 - Random sampling
 - Systematic sampling
 - Strategic sampling.

(3 marks)

(3 marks)

(3 marks)

(4 marks)

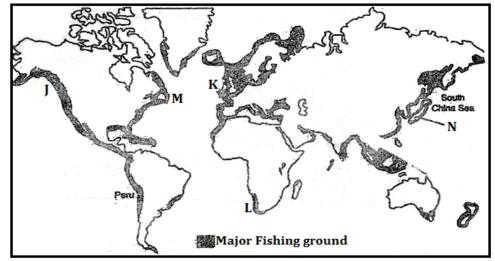
(8 marks)



8.a) (i) Name any two types of fishing.	(2 marks)
Inshore fishing	
✓ Fresh water fishing	
✓ Demersal fishing	
✓ Pelagic fishing	
✓ Anadromous fishing	
(ii) What is fish farming?	(2 marks)
The rearing of fish in pond	
(b) Describe harpooning as a method of fishing.	4mks
\checkmark It involves the use spears, arrows or sticks to strike the fis	sh in water
✓ Fish found in clear shallow water is identified	
\checkmark Fish is struck using the spears, arrows or stick	

- \checkmark Fish is then pulled out of the water with the stick/arrow
- ✓ Mainly used to catch limited fish/for subsistence use . (Any 4x1=4mks)

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



(i)Name the fishing grounds labeled J, K, and M

- ✓ J North East Pacific
- ✓ K North East Atlantic
- ✓ M North West Atlantic

3mks



(ii)Explain three physical factors that have favoured fishing along the grounds marked N. 6mks

- ✓ Broad, shallow and extensive continental shelf that favors the growth of planktons which is food for fish
- ✓ Convergence of the cold Oyasiwo and warm Kurosiwo currents that makes the coast ice free allowing fishing all year round as well as provision of ideal conditions for plankton growth .
- ✓ Indented coastline of the North East Asian with numerous islands, bays and sheltered inlets that favor fish breeding and development of fishing ports.
- ✓ Limited agricultural potential especially in Japan with rugged landscape; leaving fishing as alternative source of protein/food.

(d)Explain four measures being fronted by the Kenya government to reduce overfishing in Lake Victoria. 8mks

- ✓ More vigilant surveillance of the Lake Victoria to check on illegal fishing activities
- \checkmark Licensing of fishermen to control their numbers and activities in the lake.
- ✓ restocking the lake with new fingerlings to replace the depleted specie.
- ✓ Prohibiting/banning use of small meshed gill nets that harvest all fish sizes.
- ✓ Introduction of fish farming in the hinterland to reduce overdependence on fish from Lake Victoria.
- ✓ Banning/prohibiting fishing for some time to let the fish regenerate

8. (a) Identify three sources of non- renewable energy

- ✓ Petroleum
- ✓ Coal
- ✓ Natural gas
- ✓ Nuclear gas

b) State three advantages of biomass as a source of energy.

- \checkmark It is inexhaustible as long as there is organic matter.
- \checkmark It can produce fuels which are efficient, viable and clean.
- \checkmark It is a cheap source of energy since it uses waste products.
- \checkmark It uses low level technology to produce.
- ✓ It is environmentally friendly because it makes use of waste products.

c) Apart from the HEP projects in Kenya and Uganda, name three other HEP projects in Africa.

3 mks

2 mks

- \checkmark Akosombo in Ghana.
- ✓ Keinji in Nigeria
- ✓ Inga in D.R.C
- ✓ Aswan in Egypt.
- ✓ Kefue in Zambia
- ✓ Kariba in Zambia/Zimbabwe
- ✓ Cabora Bassa .
- ✓ Ronx/P.k in South Africa
- ✓ Goriep in South Africa

3 mks



✓ Luanza in Angola

d i) What is energy crisis?	2 mks	
Energy crisis is the situation whereby the demand for oil is higher		than

the amount supplied leading to high oil prices.

ii) Explain four ways in which energy crisis has impacted on developing countries. 8mks

- ✓ It has led to the increase in the prices of many commodities due to increased cost of transport triggered by the increase in oil prices.
- ✓ Industries have suffered industrial setback leading to laying off of some workers and slowing down of industrial growth due to increased cost of production
- \checkmark Prices of other forms of energy e.g. charcoal and gas have risen.
- ✓ It has affected agricultural inputs e.g. fertilizers whose prices have risen resulting to lower crop production.
- ✓ Air fares have escalated making it very difficult to travel hence affecting the tourism sector.
- ✓ Has led to environmental problems e.g. deforestation for firewood and charcoal.

e) You are planning to carry out a field study on hydro- electricity production in the Kenyan seven folks dams.

i) State two types of hypotheses you would use for the study (2 marks)

- ✓ Null hypotheses
- ✓ Declarative/ substantive hypothesis
- ii) What are possible follow-up activities that you will be involved in after the study? (3 marks)
 - \checkmark Reading more on the topic.
 - ✓ Display photographs/items collected.
 - ✓ Draw diagrams.
 - ✓ Write reports/presenting reports.
 - \checkmark Discuss with the rest of the class.
 - ✓ Analyze/assess the information collected against the hypothesis.
 - $\checkmark Model of the area of study.$
 - \checkmark Confirming/rejecting of the hypothesis based on the findings.

iii) Give two reasons why you would require a route map. (3 marks)

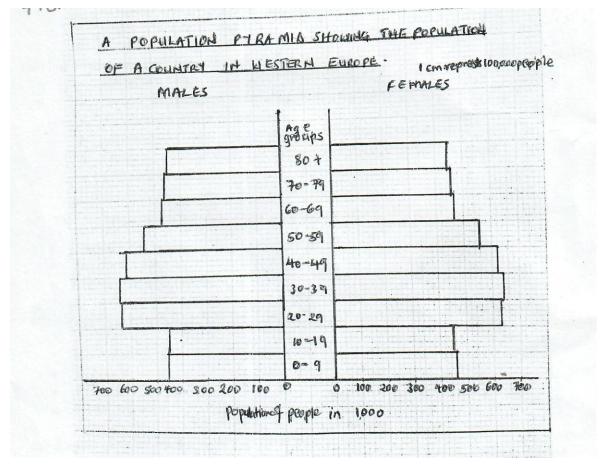
- \checkmark To guide in estimating time for the field study
- \checkmark To help identify the direction to be followed
- \checkmark To help estimate distance to be covered
- \checkmark To help in locating the area
- \checkmark To help in preparing a work schedule



Age group	Male	Female	
0-9	450	455	
10 – 19	447	449	
20 - 29	630	532	
30 - 39	635	639	
40-49	616	615	
50 - 59	541	563	
60 - 69	470	468	
70 - 79	468	459	
80+	451	451	

10. The table below shows the population of a country in Western Europe in 1000. Use it to answer part a - e.

a) Using a scale of 1 cm to 100,000 people, draw a population pyramid from the above data. (7 marks)



- b) State four characteristics of the above population structure shown by the pyramid.(4 marks)
- Has high life expectancy
- Has a large working population
- Has a low dependency ratio
- Has a low fertility rate

- Has a low death rate
- c) Explain three problems likely to be experienced due so the population trend in the above country.
- Inadequate manpower making labour expensive.
- Rural depopulation due to increase in urbanization/leading to labour shortage. _
- High old age dependency ratio due to high life expectancy. -
- Under-utilization of solid amenities due to low birth rate. _

d.i) Define the term fertility rate.

The number of children born live to women of child-bearing age i.e. 15 - 49 years.

- ii) Give three factors that influence fertility.
- Level of education _
- Family planning/use of contraceptives _
- Religion practices which limit use of contraceptives
- Medical care or hygiene -
- Nutrition/healthy diet _
- iii) State three causes of urban-urban migration.
- Search for better housing. -
- Nearness to place of work/cheap transport cost
- Availability of social amenities _
- Insecurity in some parts of the town force people to move -
- Cultural/religious priorities where people are attracted to worship.
- Cheaper housing. _

(4 marks)

(5x1 = 5 marks)

(2 marks)

(3 marks)

(3 marks)