SIAYA GEOGRAPHY ASSOCIATIONJOINT EXAMINATION (SIGEA) 2023

Kenya Certificate of Secondary Education

312/2 -

GEOGRAPHY
JUNE - 2023
2 3/4 Hours

Paper 2

MARKING SCHEME

	1.(a) Give three areas of study under practical Geography	(Smarks)
	✓ Maps and mapwork √	
	✓ Field work ✓	
	✓ Statistical Method ✓	
	✓ Photograph Work ✓	
	(b) What is the relationship between Geography and Biology	(2marks)
	✓ Biology involves the study of living organism, (plants and animals)anatomy/	
	physiology/behavior and Geography is interested in the distribution of these	
	organism/Factors influencing this distribution.	
	organism, ractors innucling this distribution,	
	✓ Biology applies geographical information to explain the factors determining	the
	distribution of species on the earth surface.	
	2.(a) State two human reasons why fresh water fishing in Kenya is more develo	-
	marine fishing.	2marks)
	✓ In Kenya there is low demand for sea fish compared to fresh water fish makir	ig fresh
	water fishing more preferred.	
	✓ In Kenya there is stiff competition in the open sea from industrialized nations	/Japan / Kon
	whose fishermen are using modern fishing methods/ equipment this discour	ages local
	fishermen.	
	In Kenya there is limited technology/inadequate capital making it difficult to	develop
	marine fishing. I The fishermen lacks modern e	quipment
	marine fishing. The fishermen lacks modern e for Preservation processing in (b) Give three ways in which the government of Kenya is encouraging the fishing	g industry
Loou	Maria	(2monles)
2 to M	wal Mkt To encourage fish faming finances for fish farming restarbly him to the first farming for fish farming for fish farming for fish farming for financial for fish farming for financial for fish farming for financial for fish farming for financial for fish farming for fish fa	ich firme
m fo	Wentowing Restocking overfished areas by breeding, finger lings	the Ext Good
The po	had culture Licensing of fisherman to avoid overfishing	, ,
	Banning of indiscriminate fishing methods/ enforcing the use of standardized	
A)M	nets/seasonal ban of fishing. To allow fingerlings to ma	lus fregen
WVI	nets/seasonal ban of fishing. The work funder ungs to ma	· offer
0-0	Encourage fish eating culture/looking for/external market	
	against water Collina Control water pollution by the configures in blooming presented	Statul or
We	Establishing of issing ministry	g nuousan
Du	Lively Contributed water hyacuthe cleaning of water h	younth f
1000	nets/seasonal ban of fishing. To allow finderlings to make the prediction of sited lakes. Dredging of sited lakes. Encourage fish eating culture/looking for external market Control water pollution by enachnal west full brokening for exearch Establishing of fishing ministry Establishing of fishing ministry Formation of assist fishermen. Credit his control Control water has been a control Control water has been a control Control water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water by a control Control water pollution by enachnal water for water for water by a control water by a contr	(2 marks)
21/10	3.(a)Define plantation Specialized commercial cultivation of cash crops in large tracks of land. (b)State three characteristics of plantation farming.	- 1
		(3marks)
2.660	Farms are scientifically managed propley mene is sein	tingally or
MIL	Capital intensive 114 of Capital intensive	apreary 1
10	Farms are scientifically managed / Employment is still all of Capital intensive / High capital is required A sing be emp is usually grown and a wantity Production is high in awaity and a wantity All outs Armen in bood when a base and to write up and Vol.	
- IAN	of ports forment inhoducing reprigerated contained Vel	2 Page
Shop	of ports forment inhoducing refrigerated contained Vel	BUT Bracks
	BY LOKKY ALMINING	-
1	7-0061 17-2/10	
2 N	thickers A sing be emp is usually grown and a wantily apply to harmen in high in quality and a wantily apply the ports for more inhousing reprigerated contained Vel example in their properties with the properties of the properti	

- some farme are labour intensive - farms are labour intensive

1	Farm are large /40 h	ectares/100 ac	re and above /cro	ps are grown o	on extensive
	tracks of land.				

✓ Land is owned by foreigners/individual/groups/companies

✓ Provision of social amenities to workers

✓ Monoculture leading to soil erosion/ growing of one crop.

4. (a) State two physical reasons why many rivers in Africa are not navigable (2marks)

✓ Rugged nature of landscape with steep slopes/highland

✓ Shallow/narrow/fast moving water unsuitable for navigation.

✓ Presence of rock obstacles/ waterfall/ out crops/hindering movements of vessels.

Rivers are affected by siltation

✓ Floating vegetation in some rivers. ✓

· Ineldequate economic resource in most of the areas served by the

V seasonal fluctuation of water regime (b) Outline three advantages of containerization.

Time saving containers have large capacity making loading/offloading of containers

Economical in terms of space/ have regular shape reducing wastage or space

✓ Safety/ security containers are sealed from destruction/ tempering with being stolen / weather conditions

✓ Containers are easier to handle, they are fitted with special devices/ hooks/ rings to assist in loading/unloading

5.(a) State three human factors favoring tourism in Switzerland.

(2marks)

✓ Switzerland has a well-developed transport/road network/electric trains/cable curs/ Idwersty of languages aerial lift. People handing tourist can speak in four languages/German/French/English/Latin

making communication easy people handling tourist are highly trained Swiss are

hospitable. / Cultive -

hospitable. Chalets
Switzerland has very many high class hotels/ mountain churches/ caravan sites/ camping sites / guest houses / taverns

✓ Switzerland has abundant tourist resort/ many cities of historical importance/ Hein spas

Switzerland is a center for international meeting Headquarters of World organizations

Switzerland is highly industrialized produce many types of manufactured goods some afferded used in tourist industries / employe many people who can afford

Passage/package tours has increased travel. For tours this promiting,

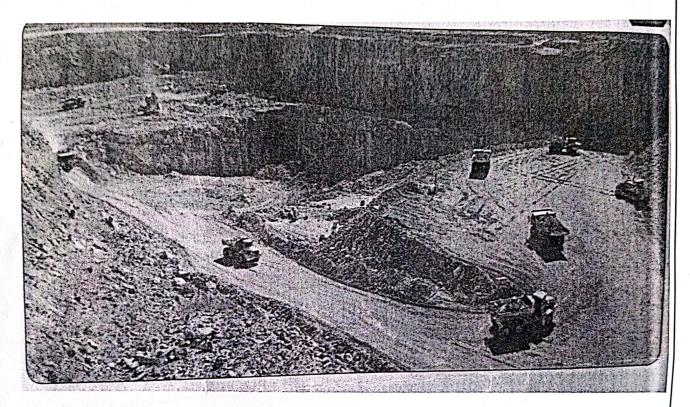
Switzerland political neutrality. Shubbling to no restrictions to citizen of any country making tourists feel confirtable and sea (2 marks)

✓ Eco-tourism is the development/ management of tourism while conserving the environment/enjoying what nature provides while protecting it.

SECTION B

Answer Question 6 And Any Other Two Questions From This Section.

6. Study the photograph below and use it to answer question (a) and (b)



(a) i) What two evidence shows that this is ground general view photograph. (2marks)

- ✓ The photograph captures the broad view of the area / a broad view of the area is captured.
- ✓ The photograph focuses on many objects
- ✓ The objects become progressively smaller towards background.
- ii) Name the type of mining shown on the photograph.
 - ✓ Open cast mining
- (b) Describe the methods of mining in a(ii) above.

(marks)

- ✓ Open cast mining involves the stripping off of the overburden
- Unwanted material lying on top of the mineral deposit and dumping it nearby if

the mineral bearing rock is soft, it can be removed by digging/ If it is hard, explosive may be used to loosen it and then huge power shovels can be employed to dig up the mineral deposits.

Charles of the Control of the Contro	✓ The ore is then loaded into lorfies/ trains/rail wagons Open cast method is used
	to mine surface coal/ copper iron ore/quarrying rocks such as
The same	limestone/gravel/igneous rocks/clay for bricks.
	(c) State four effects of dereliction of land Waste of Agricultural land / The-heaps. Many occupy land otherwise suitable for farming.
	✓ Waste of industrial land/elerelict may occupy industrial land which could be used for industries/housing
	✓ Land become ugly/land loses aesthetic valves values
	✓ Health/accicient hazards/ land open mines may be filled with water creating deep
	pool preeding grounds for mosquitoes/ waterborne diseases,/land may subside
	Causing collapse of structures/ land may be susceptible to landslides.
	d) Explain four contribution of gold mining to the economy of South Africa
	Which is Weed to improve of the Getter of the Burney Gold is exported and it earns foreign exchange which is used as a means of paying
Id min	international debts.
	it offers employment opportunities to many people which leads to earning income
the de	
idustra	minny It has led to widespread urbanization contributing to formation of the Witwatersrand conurbation. Orealong lange dd for agneullwalf
Willett	
seful 1	market for secondary industries. Such as wads frught con
segre "	market for secondary industries. Such as reads from the led to development of modern infrastructure/ social amenities and improve
rolon	on living conditions.
conon	1 (A) Identify four formations in which minerals and mineral ore may occur (4marks)
	✓ Veins and lodes ✓
THE WAY	Beds and seams Almers
THE STATE OF	✓ Weathering products
	✓ Alluvia/ place deposits ✓
	/ Evapurantes
	7. (a) List four types of irrigation practiced in Kenya.
	✓ Drip irrigation Tank Irrigation
	✓ Trickle irrigation
	✓ Overhead / basin rerigation
	✓ Flood basin irrigation ,
	V Lifting deries
	(b) i) What is a polder? - Lenfel reclaimed from the seg
	This is a low lying reclaimed land / below sea level which is surrounded by dykes
ow by	that protect it against high water tides and is artificially drained. / Land
coche	med from ii) Describe the stages of land reclamation from the sea in the Netherlands
110	ii) Describe the stages of land reclamation from the sea in the Netherlands
the se	and the stages of land reclamation from the sea in the Netherlands
1011	/IUNUS-
Niethe	5 Page

Construction of protective dykes/walls to enclose part to be reclaimed Drainage pipes une Construction of ring cannels to carry water from the area to be reclaimed laid below the soil Pumping stations installed to pump out sea water from area enclosed by dykes to collect exceps ✓ Water pumped out of the area enclosed by dykes Water. ✓ Reeds were sown to prevent weeds from growing/to use up any excess water in Olyan more Walter the area so the soil could dry. ✓ Drainage ditches were cut in land and Land /more pumping stations put up. ✓ Area was divided into rectangular portions, using igner dykes/ring canal. ✓ Soil treated with chemicals to lower their salinity. Drained land was flushed with fresh water to remove salt from the soil. Pumping out of water from the polders was continuous process. (c)State four ways in which land is being rehabilitated in Kenya (4marks) ✓ By filling open pit/land scaping ✓ Constructing terraces to reduce speed of surface run off/soil erosion. ✓ By planting trees /grass trips on degraded land!
✓ ✓ By building gabions to hold/trap soil carried by waten ✓ Bush fallowing to allow land reclaim its fertility
✓ ✓ Controlled grazing to control erosion/allow pasture to re-grow. ✓ Mulching/planting cover crops/cut off drains to retain moisture/add humus. Irrigating semi-arid areas to provide water for crops (4x1=4marks) (d) Explain three problems facing Perkerra irrigation schemes (6marks) Fluctuation in volume of R. Perkerra during dry season/R. Perkerra is a seasonal Inter-ethnic conflicts basen land ownship leads to inscendy river. Teads to shortage water to the Schemera ✓ Dry seasons results to high evaporation causing salinization/making soil poor for farming. / High Inadequate capital, making it impossible to employ mechanization. Depletion /exhaustion of soil fertility by maize crops therefore low yield. Monoculture has resulted to farmers abandoning other crops/seed maize is The sandy plunal Harm inputs reduce (3x2=6marks)8.(a) State five characteristics of coniferous forests (5marks) ✓ Tress are evergreen ✓ Trees have narrow/need-like leaves ✓ A few /larch are deciduous ▶ Tree species occur in pure stands one species Same species There is little undergrowth. Ino tendegrowth ✓ Trees can be gigantic/big/trunks with circumference of up to 15m ✓ Tree crowns are cone shaped Trees have thick barks/with resin to protect from frost.

Trees begar cones Trees have a Straight frums / tall The trees have shallow routes Tree take long to mature/50-70 years because of extreme cold winter (any 5x1=5marks) (b) Explain four factors favouring exploitation of softwood in Kenya (8marks) Logging can go all year because Kenya does not experience any winter which would interrupt the activity. Hydro-electric power is readily available to the relatively few saw-mils/paper factory in webuye for production. ✓ Availability of water from R.Nzoia/used in production process in the industry Timber/wood products demand within Kenya/COMESA region guarantees a ready market for these products. Availability of cheap /ample labour for cutting /processing of times (4x2=8marks) (c)State four problems facing forestry in Kenya (4marks) People encroach to forest land/need for agriculture/settlement. Increase population of game/increase in population of grazers/elephants cause damage to forest/overgrazing. Incidences of forest fires to the forest ecosystem/lumberjacks/poachers/charcoal burners/honey harvesters set fire deliberately. Outbreak of pests/aphids/diseases. Poor management of forests leads to shortage of forest products/delay in replanting. Some forests, have been turned into game reserves/public utility/private land resulting to reduction. Forests in some areas are over exploited through charcoal burning/logging /extraction of . prolonged drought has led to dry my & (e) Explain four importance of conserving the environment (8 marks) ✓ To reduce polytion which causes diseases to animals /plants resulting into good prolonged life/reduced global warming. ✓ For sustainability of resources needed by mankind. ✓ To ensure effective utilization of valuable resources to avoid wastage. ✓ To protect endangered plant/animal species ✓ ✓ To prevent scenic value/beauty of landscape /wildlife to promote tourism (any 4x2=8marks) 9.(a) State five features of nomadic pastoralism in Kenya (5marks) Reliance on Animals are kept as a sign of wealth /prestige /social status. the animals Animals are kept to pay dowry. as Source 4 Animals are used as a source of food /milk/meat/blood. Animals are kept as source of income ✓ It is a form of insurance against natural calamities /diseases/raids /droughts. - Large hirds are Kept in a large mety Seasonal mignitive communed grasing

High incidencedence of There is uncontrolled bree (b) Explain four problems facing pastoralism (8marks) - 1-bor Shew Prolonged drought leads to shortage of water /searching of pasture. Mat leads to Poor / ow quality Overstocking leads to overgrazing hence poor pasture. Pests/diseases e.g Rinderpest/East coast /nagana/Anthrax /ticks reducing quality. dea Low quality of the animals. leggls to low income ve Animals are frequently attacked by wild animals. [eadw (4x2=8marks) & dea area limits Mit. cattle rus Fling I raids make the area Insecure of animals - Inadequate retennany cervies leading to low qual - The name (c) Give four differences between beef farming in Kenya and Argentina carre breeds Kenya beef farming is carried out by both pastoralist/commercial ranches whereas in yields low, Argentina beef farming is done in extensive ranches amount of mil Kenya has inadequate/lack of adequate pasture for grazing beef animals while Argentina has extensive natural pasture in pampass neat. Kenya beef farming is done on a small scale/less mechanized while Argentina its heavily mechanized and on large scale. Argentina has a high local market for beef while Kenyan market is limited. Farmers in Argentina have more access to capital needed for beef farming while in Kenya farmers have inadequate capital. (4x2=8marks) (d) List four communities that practice pastoral farming in Kenya (4marks) √ The maasai
✓ ✓ The Turkana ✓ The Borana The Somali ✓ The Rendile • The Samburu (4x1=4marks) Pokot 10.(a) Name three regional trading blocks in Africa apart from ECOWAS (3marks) ~ comesar commun Market for Rastorn and Souther Africe Southern African Development community East African community. (b) State three objectives of ECOWAS (3marks) ✓ To accelerate economic integration/share development through harmonization of economic/financial policies. Forming a unified economic zone in west Africa. ✓ Creating a modetary union (3x1=3marks) (c) State five factors that influence external trade in Kenya (5marks) ✓ Demand for goods/services ✓ Similarities/differences in the goods produced. ✓ Purchasing power of the people.

- ✓ International trade agreement/restrictions.
- ✓ Political stability or trading partners ✓
- ✓ Availability of transport/communication network.
- ✓ The level of technology.

(3x1=3marks)

(d)Explain three reasons why Kenya is experiencing imbalance of trade with other trade partners (6marks)

- ✓ Semi processed goods exported earn less!
- ✓ Some the goods exported are of low quality hence generate little earnings
- ✓ The agricultural goods exported from Kenya face stiff competition/imposed quota system to world market which leads to reduced less earning. ✓
- Kenya exports mainly agricultural raw materials which are of low value and imported goods which are of high value. (3x2=6marks)

(e) Discuss four significance of trade to Kenya

(8marks)

- Fostering regional cooperation/peace harmony/cooperation resulting to rapid economic growth.
- ✓ Development or banking /insurance/warehouses/settlement expansion.
- Availability of wide range of goods where consumers can choose from variety.
- ✓ Provide market for surplus, leading to economic growth ✓
- Creation of employment opportunities resulting to earning income and improving living standards.
- ✓ Government earns revenue/charges VAT/tariffs to protect local industries of discourage importation of some commodities which are locally available.
- Efficient/improved transport/rail/air/water/perishable goods are air lifted resulting to stimulation of airports.
- ✓ Earns foreign excharge/revenue earning from increased exportation that in turn increase revenue earned.
- ✓ Stimulates growth of industries to satisfy increased demand for goods.

THIS IS THE LAST PRINTED PAGE



There is a well developed framport network in Argenting of white in Kenya roads are impassable which hinders tramport to mikes.

- In Kenya both exotic and local breeds are kept While in Argenting, must of the breedsare

exohe

- In Argentina James grow crops like wheat While in Kenya farmers practice only beef farming.

-In Kenya most of beef products are for local consumption with little for export while in Argenting most of beef products are for export with little sold for in the local most. the local mixt.

Pests, and diseases are a major problem in Kenya white in Argenting the problem is workfilled.

010b) Correction To encourage trade among the member states - To eliminate trade barners on locally produced gover in the region - To promote free movement of goods and pple In the region, - To encourage its improvement of transport/ communications in order to freshte trade - To encourage agraultume and industrial dest among the member States

agreulture, forestry and Industrial 10 cooperate on matters of research 12