Name		Index Number	r
Candidate's Sig	gnature	School	•••••
Date	•••••		
312/2			
GEOGRAPHY I	MARKING SCHE	ME	
Paper 2			
Nov. 2021	1.45		
Time: 2hours a	nd 45 minutes		
BUTULA CLUS Kenya Certifica GEOGRAPHY Pa 23/4 hours Instructions to (a) This paper h (b) Answer all (c) Answer que (d) All answers (e) This paper (f) Candidates are printed as	-	LUATION on (KCSE)  A. o questions from sections swer booklet provided. lges. ion paper to ascerta questions are missin	in that all the pages
	OUESTION		
	QUESTION		
	SECTION A		
	6		
	7		
	8		

TOTAL SCORE

### **SECTION A**

Suez canal

### Answer all the questions in this section

1.(a)	Name	two exotic species of trees planted in Kenya. (2 marks)		
	-	Pine		
	-	Cypress		
	-	Blue gum /eucalyptus		
	-	Wattle		
	-	Kei-apple		
	-	Jacaranda		
	-	Bomb ax		
	-	Grevilea		
	-	Cedar		
b)	State t	three reasons why it is necessary to carry out Afforestation programme	rs in	
	Kenya	a. (3 marks)		
	-	To protect water catchment areas		
	-	To protect soil from erosion by wind/water		
	-	To ensure sustainable supply of forest products		
	-	To put more land under forest cover		
	-	To check the extinction of indigenous trees.		
	-	To regulate climate		
2 a) Name two water canals found in Africa. (2mks)  • Jonglei canal				

#### b) Give three roles of transport on industry.

(3mks)

- transportation of raw materials to industries
- transportation of finished goods to the market
- transportation of workers to industries

#### 3. (a) State three measures which the government of Kenya has taken to reduce infant mortality.

#### (3Marks)

- The has been widespread immunization for children to control diseases
- The government provides free medical services for children/free mosquito nets
- The government provides parental education to ensure better care for children breastfeeding campaigns/family planning
- There is a government policy granting longer maternity/paternity leave for mothers to take care of the new born
- Research on infant related diseases has been stepped up
- The government encourages provision of homes for orphans
- Training of traditional midwives
- The government has increased/improved medical facilities

#### (b) Give two negative effects of low population growth in a country. (2 Marks)

- It leads to under utilization of resources/slow economic growth
- It leads to reduced market for goods
- It leads to an increased ageing population in a country/leads to high dependency
- It leads to reduced labour force/productivity
- Its expensive to provide social security

# a) Give any two minerals found in the Rhur region of Germany.(2mks)

- Limestone
- Iron
- Coal

# b) Identify three main types of industries found in Kenya. (3mks)

- Primary
- Secondary
- Tertiary

#### 5. a) List two factors influencing trade (2 marks)

- Capital
- Market
- Government policy
- Security

### • Availability of goods

### b) Identify THREE major imports to Kenya.

(3 marks)

- Machinery
- Fertilizers
- Pharmaceuticals
- Crude oil
- Skilled labour
- Wheat
- Iron and Steel
- Textiles

SECTION B
Answer question 6 and any other two questions from this section

6. Study the photograph below and answer the questions that follow.



a i) Identify the type of photograph above.

(1mk)

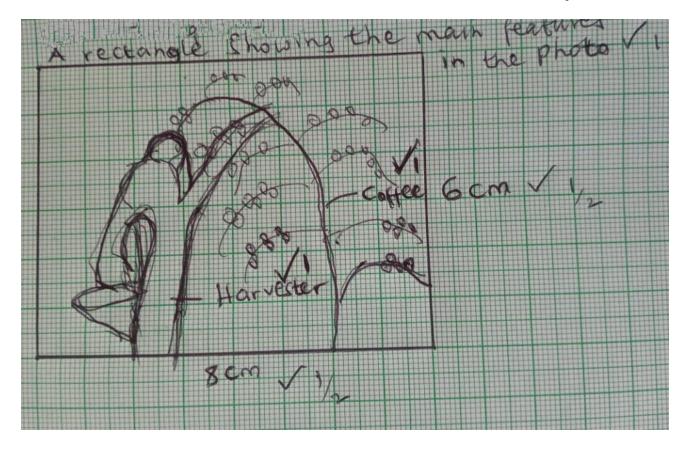
### Ground close-up

# ii) Give two reasons for your answer above.(2mks)

- The camera is held horizontal to the object
- There is one main feature/activity
- Features behind are obscured

# iii) Draw a rectangle measuring 8cm by 6cm. on it, mark and label the main features.

(4mks)



- b i) Name two types of coffee grown in Kenya. (2mks)
  - Robusta
  - Arabica
    - ii) Name three counties in Western Kenya where coffee is grown. (3mks)
  - Bungoma

- Kakamega
- Vihiga

### iii) give three conditions favoring coffee growing in Kenya (3marks)

- Moderate to high temperatures of 14-16 degreed Celsius
- Moderate to high rainfall ranging between 1,000-2,000mm per annum
- Deep fertile volcanic soils
- Undulating landscape with hill slopes and gentle slopes

## c i) State three problems facing coffee farmers in Kenya. (3mks)

- Soil exhaustion
- Climatic hazards
- Pests and diseases
- Price fluctuations
- Poor roads
- Delays in payments
- Mismanagement.

# ii) Identify three ways in which the government has attempted to promote coffee farmers in Kenya.

#### (3mks)

- Improved road transport
- · Research on new species has been conducted
- Control of pests and diseases
- Advanced loans to farmers
- Provided extension workers to advice farmers
- Helped in marketing coffee

# D) Explain two reasons why coffee production is more developed in Brazil than in Kenya.

(4mks)

- Brazil has more extensive land for coffee farming than Kenya
- Brazil has more developed transport network in form of roads and railway
- There is more efficient marketing in Brazil than in Kenya
- Brazil face s few climatic hazards compared to Kenya which faces prolonged drought.

7

#### a) i) Apart from the sun, name three other sources of energy

- Water, Wind, Wood, Tides, Biomass (Any 3x1=3mks)

### ii) State four advantages of using solar energy

- Cheap source of energy
- Available almost every where
- It can be stored and used later
- Environmentally friendly
- Inexhaustible source of energy. (Any 4x1=4mks)

# b) State four ways in which Kenya has benefited from hydroelectric power scheme

- Provision of electricity
- Foreign exchange
- Fishing grounds
- Modified the local climate
- Control of floods
- Improvement of transport and communication. (Any 4x1=4mks)

#### c)Explain five factors favouring development of Hydroelectric power projects

- Hard basement rocks to provide a firm foundation for dam construction
- Presence of waterfalls to provide a massive hydraulic force head for power generation
- Regular/large volume of water to ensure continuous power generation
- Non porous rocks to prevent water loss/seepage underground
- Presence of a deep narrow valley/gorge to provide a large reservoir behind the dam/reduce cost of building embankments
- Government policy availability of land/space for setting up the plant
- Market to buy the produced HEP
- Adequate capital to set up the project since it involves high capital outlay

(Any 5x2=10mks)

#### d) Explain two impacts of energy crisis in the society

- Is a situation where the demand for oil is higher than supply, leading to high oil prices
- Increased transport cost
- Increase in price of oil, increases price of other commodities
- Affect balance of trade
- Agriculture inputs such as fertilizers would become more expensive

(Any 2x2=4mks)

# 8 a) Define the term land reclamation.(2mks)

Land reclamation is the practice by which less useful land is converted into more useful land.

## ii) State three ways through which land can be rehabilitated in Kenya. (3mks)

- Planting vegetation,
- Making terraces,
- building gabions,
- adding manure,
- filling up quarries.

# b) A part from Mwea Tebere, identify any three irrigation schemes in Kenya. (3mks)

- Perkerra irrigation scheme,
- Bura, Ahero,
- West Kano,
- Bunyala, etc.

### ii) Explain three physical factors that influenced the location of Mwea Tebere irrigation scheme.

#### (6mks)

- Mwea plains have black cotton soils suitable for rice farming.
- Gently sloping land to make it possible for irrigation.
- Permanent rivers of Nyamidi, Murubara and Thiba that provided water for irrigation.
- High temperatures suitable for cultivation of rice and irrigation.
- Loamy soils suitable for cultivation of other crops to support families.

#### c) Give three problems facing Mwea Tebere irrigation scheme. (3mks)

- Diseases such as malaria and bilharzia
- Delayed payments
- Weeds
- Financial mismanagement
- Poor access roads
- Pests

#### d) Identify two benefits of Zuyder Zee project in Netherlands.

- Creation of large fresh water lakes
- Provision of infrastructure and other social amenities.
- Has reduced tidal flooding.

#### i) Explain three similarities between land reclamation in Kenya and Netherlands.

(6mks)

- In both, reclaimed land is located in low lying areas such as shallow coastal areas and swamps.
- In both, floods are used to control water from entering the reclaimed areas.
- In both, ditches and canals are used to drain water from reclaimed areas.
- In both, scientific methods such as use of fertilizers to improve soil fertility are used.
- In both countries the government organizes the work of reclaiming land.

#### a) Define the term Mining. 9

(2mks)

(2mks)

Extraction of valuable minerals and fossil fuels from the earth's crust

- ii) List three ways in which minerals occur.
  - Beds and seams
  - Lodes and veins
  - Alluvial deposits
  - Weathering products

# b) i) Identify any three minerals mined within the rift valley of Kenya. (3mks)

- Diatpomite
- Flourspar
- Soda ash
- oil

## ii Mention any two problems associated with underground mining. (2mks)

- Flooding from subterranean water
- Collapse of tunnel roofs
- Dust leading to respiratory diseases
  - c) Study the diagram below and answer the questions that follow

#### i) Name the part labeled WXY

(3mks)

W-Gas

Y- Oil

Y- Water

- ii) State three conditions that favor the formation of an oil reservoir. (3mks)
  - Presence of sedimentary rocks
  - Presence of organic remains/fossils
  - · Presence of pressure to compress or organic remains
  - Presence of porous rocks.

#### d) Students carried out a field study in a mining site.

#### i) State one objective of the study.

(1mk)

- To identify the type of mineral mined
- To establish the significance of the mining activity
- To find out the problems affecting the mining activity

#### ii) Give two methods they used to collect data.

(2mks)

- Questionnaires
- Conducted interviews
- Collected rock samples of the ore
- Took photographs

# iii) Identify the features they may have observed to conclude that the land has been

derelicted.

(3mks)

- Open pits/Quarries
- Heaps of soil material
- Cleared vegetation
- Bare surface

## iv) A part from land dereliction, give three other effects of mining on the environment.

(3mks)

- Pollution
- Loss of biodiversity
- Disruption of water table
- Soil erosion

#### 10 a) Define the term environment.

(2mks)

External conditions that surround a plant or an animal.

# ii) State three farming methods that assist in soil conservation. (3mks)

Contour farming Mulching Crop rotation

# b) i) State three ways in which people are affected by floods. (3mks)

- Loss of lives and property
- Destruction of transport and communication lines
- Displacement of people
- Spread of waterborne diseases like cholera

# ii) Explain three methods in which floods can be controlled. (6mks)

- Dykes are constructed along river banks levee of rivers to increase their height in order to prevent water from over flowing

Dredging of river channels to deepen/ widen them to make it possible for them to accommodate excess water

- Dams are build across the rivers to control the amount of water discharges downstream/ construction of earth dams to hold back water
- Training/ re- directing a river/ straightening of a river to control its wild flow ( training means cut meander loops
- Planting of trees in the catchment areas to reduce surface run off and increase infiltration
- Divering tributaries to other rivers to reduce the volume

### c) Give two causes of water pollution.

(2mks)

- Oil leaks from ships/ trucks
- Industrial effluent when discharged into rivers/ lakes
- Washing away (into rivers and lakes) chemical/fertilizers/pesticides/insecticides
- Washing/ bathing/ watering animals in rivers/ lakes
- Disposing of raw sewages into rivers/ lakes
- Surface turnoff/ soil erosion into water depositing silt
- Dumping of solid waste into water courses

# ii) State three effects of water pollution on environment. (3mks)

- It may cause death of aquatic life
- It destroys aesthetic/ beauty of beach/ water bodies
- It leads to spread of waterborne diseases
- Causes foul smell
- Results to sutrophictaion/ water hyacinth/ water weeds/ alga

# iii) Explain any three ways in which drought and desertification can be controlled.(6mks)

- Planting drought resistant crops
- Establishment of irrigation programs
- Afforestation and reforestation.
- Destocking of livestock to reduce on soil erosion and overgrazing
- Protection of water catchment areas.