

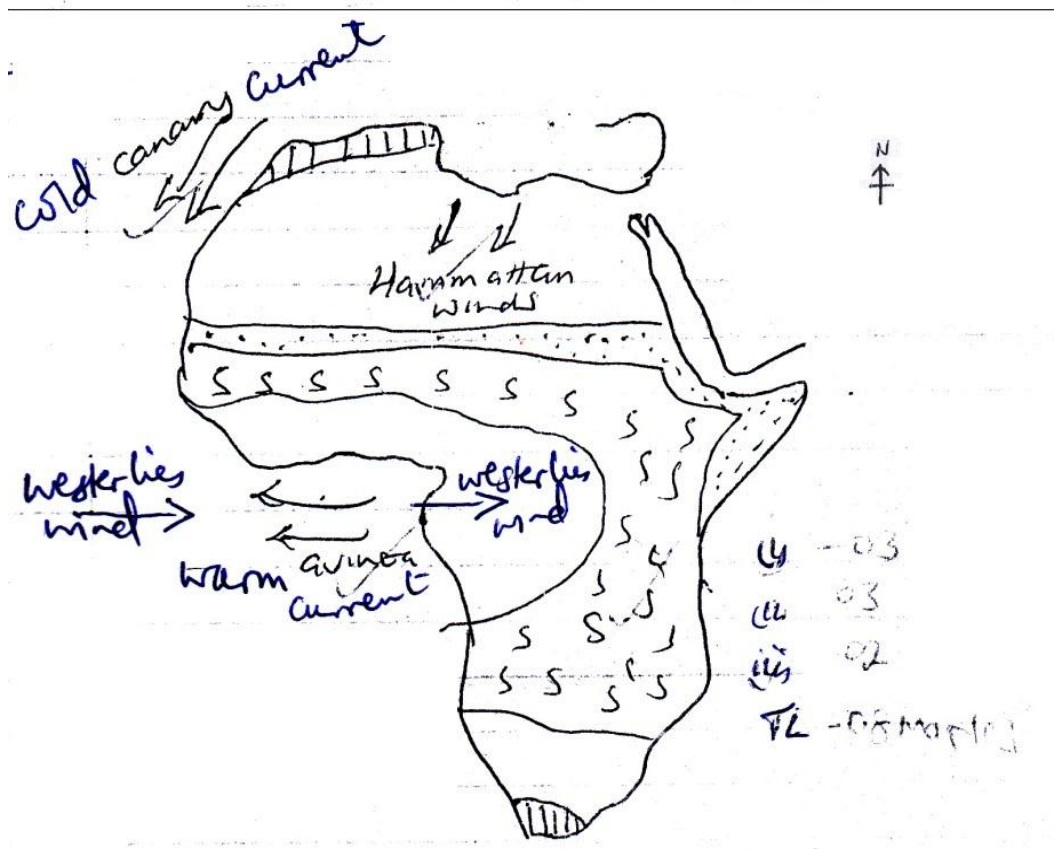
MWALIMU EXAMINATIONS BUREAU

UCE RESOURCE MOCK EXAMINATIONS – 2019

GEOGRAPHY

Paper 2 Marking Guide

1. (a) Sketch map of Africa showing climate zones, ocean currents and prevailing winds



- b). Describe the characteristics of either Mediterranean or savannah climate

Mediterranean

- ✓ Cool and wet winters
- ✓ Warm and dry summers
- ✓ Temperature range 21°C in which summer and in 10°C in winter
- ✓ Low humidity
- ✓ Cloudless skies
- ✓ On shore Westerlies (winter)
- ✓ Off shore winds (summer)
- ✓ No rain
- ✓ Rainfall 500 - 760 mm

Savannah

- ✓ Two distinct season wet and dry
- ✓ Summers-hot-32°C
- ✓ Winters – cool-21°C
- ✓ Annual temperature range-11°C
- ✓ Convectional rainfall – summer
- ✓ High humidity
- ✓ Rainfall -600-1000 mm
- ✓ Hot and wet summers
- ✓ Cool and dry winters

c). Explain the conditions that have favoured the existence of Savannah climate

- Latitudinal location near the equator implying moderate rainfall
- Influence of savannah woodlands through evapotranspiration
- Apparent movement of the sun which results into seasonal distribution of rainfall
- Influence of prevailing winds that bring moderate rainfall in areas per year
- Human activities like deforestation which turn areas from equatorial to savannah conditions.
- Influence of prevailing winds
- Nearness to water bodies which provide seasonal rainfall through evapotranspiration.

Max 6 mks

d). Outline the economic activities carried out in the T. climate

- Tourism – game and national parks – grassland.
- Animal rearing due to presence of pastures.
- Lumbering in the woodlands
- Available farming i.e planting during the rainy season.
- Charcoal burning due to presence of woodlands
- Collection of wild fruits and local herbs.
- Api-culture due to presence of woodlands.
- Trade and commerce in agricultural produce.
- Establishment of agro-based industries

Any 5x1 = 5 marks

Sugar cane growing in Natal Province S.A

2. a) Name

i. Ports

- | | |
|--------------|------------|
| A. Durban | 1mk |
| B. Shepstone | 1mk |

ii. Rivers

- | | |
|-------------|------------|
| 1. Umfolosi | 1mk |
| 2. Tugera | 1mk |

iii. Water bodies

3. L. St. Lucia **1mk**
4. Indian Ocean **1mk**

iv. Ocean Current

- Y- Mozambique warm ocean current **1mk**

v. Country

- C- Swaziland **1mk**

b). Describe the physical conditions that have favoured sugarcane growing in Natal

- ✓ Gently sloping landscape
- ✓ Hot temperatures 21⁰C and above
- ✓ Heavy rainfall 1000 mm
- ✓ Low-lying areas
- ✓ Extensive land
- ✓ Rivers- water- irrigation
- ✓ Well drained soil

6x1 = 6 marks

c). Explain the problems facing sugar cane growers in Natal Province, South Africa

- ✓ Competition from other producers
- ✓ Price fluctuations due to over production and competition
- ✓ Labour shortages
- ✓ Shortage of capital
- ✓ Vagaries of weather
- ✓ Profit repatriation
- ✓ Soil exhaustion and erosion
- ✓ Pest and diseases
- ✓ Weeds

6x1 = 6 marks

d). Outline the steps taken to solve the problems

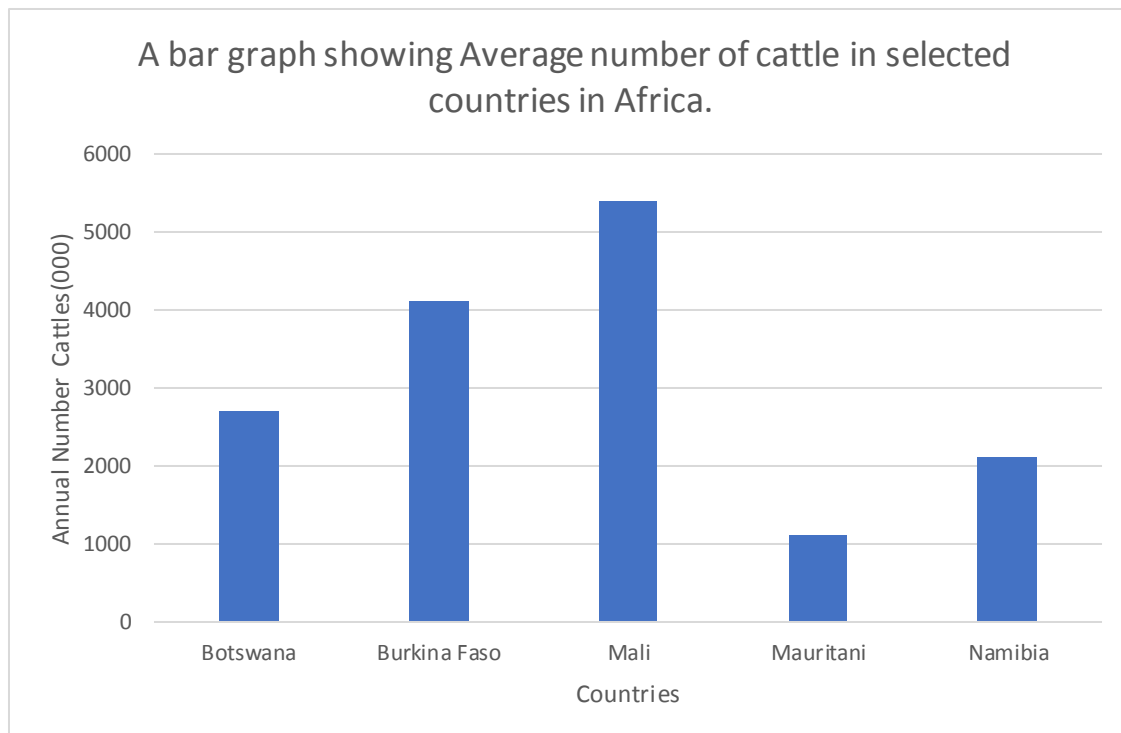
- ✓ Regulate sugar production
- ✓ Construct storage facilities
- ✓ Improve quality of sugar
- ✓ Raise workers wage
- ✓ Attract investors
- ✓ Use pesticides
- ✓ Spraying the woods
- ✓ Applying fertilizers
- ✓ Follow and control foreigner's activities
- ✓ Loan from the government and SASA (SA Sugar Association)

Any 5x1 = 5 marks

Total 25marks

3(a). Calculate the percentage of called produced in the countries showing in the table above.

Botswana	$= \frac{2,767,00}{15,540,00} \times 100$	$= 17.8\%$
		$= 18\%$
Burkina Faso	$= \frac{4,178,000}{15,540,00} \times 100$	$= 26.9\%$
		$= 27\%$
Mali	$= \frac{5,432,000}{15,540,00} \times 100$	$= 34.95\%$
		$= 35\%$
Mauritania	$= \frac{1,070,000}{15,540,00} \times 100$	$= 6.9\%$
		$= 7\%$
Namibia	$= \frac{2,093,000}{15,540,00} \times 100$	$= 13.5\%$
		$= 13\%$



(b)(i). Any two countries where transhumance is practiced

- Nigeria

- Chad
- Mali
- Mauritania
- Senegal
- Burkina Faso

(2 mks)

Ranching countries

- Botswana, Namibia, Angola, Zambia, Zimbabwe.

(01 mk)

(c). Factors for Ranching in Botswana / Namibia / Angola

- Vast land for the establishment of ranches
- Gently sloping plateau that eases the movement of animals on the ranches.
- Presence of extremely dry and hot conditions that discourage arable farming leaving ranching as the best alternative use of the land.
- Large market for beef in Africa and beyond
- Skilled labor from the population to work on the ranches.
- Adequate capital from the government, banks in form of loans and foreign investors to invest in ranching.
- Efficient transport by railway and road that facilitates the distribution of livestock products.
- Favorable government policy that supports ranching by providing capital and unlimited infrastructure.
- Fresh water for the animals to drink for the rivers and streams in the region.
- Advanced technology that eases work on the farms in term of feeding, spraying, slaughtering animals. Etc.

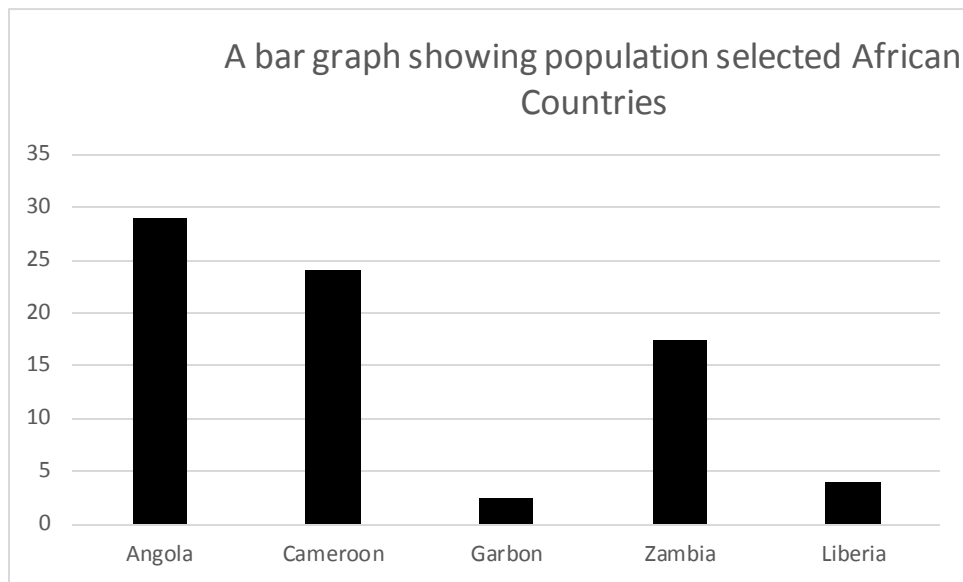
(5 marks)

(d). Measures being taken to improve the livestock sector in Africa.

- Regular inoculation against diseases / spraying
- Establishment of meat processing industries.
- Construction of bore holes / water hole to increase access to water
- Planting of feeder crops / artificial grass to supplement natural pasture
- Expansion of transport routes to the livestock areas.
- Development of better yielding breeds at the research centers.
- Advertisement of animal products to widen the market
- Strengthening cooperatives
- Application for loans from financial institutions

(max 5)

4 (a)



Countries

(b). Population density for the selected the countries

Angola	=	$\frac{29,700,000}{1,246,700}$	=	23.8 PPSK	1mk
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Cameroon	=	$\frac{24,050,000}{475,650}$	=	50.5 PPSK	1mk
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Gabon	=	$\frac{2,025,000}{267,667}$	=	7.5 PPSK	1mk
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Zambia	=	$\frac{17,090,000}{267,667}$	=	22.7PPSK	1mk
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Liberia	=	$\frac{4,700,000}{267,667}$	=	42.2 PPSK	1mk
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(i). Country with the lowest population density

Is Gabon at 7.5 PPSK 1mk

(ii). Factors for the low population density in Gabon

- Presence of this extensive forests that are hard to clear for settlement.

- Presence of too much rainfall that cause floods hence discouraging settlement.
- Presence of hot temperatures and high humidity leading to uncomfortable viewing caused by heavy rains, hence, discouraging agriculture and consequences settlement.
- Remoteness / in accessibility due to dense forests hence discouraging settlement.
- Frequent outbreak of pests and diseases that discourage farming and settlement leading to low population density.

(d). Problems associated with countries with a low population density.

- Limited labour supply leading to low production.
- Inadequate market for goods and services leading to low levels of development.
- Low tax base hence affecting economic development in the region.
- Such countries are prone to insecurity since they have limited manpower to recruit in armed forces.
- Inadequate social services since governments find it uneconomical to put such facilities / services in place.
- Under utilization of natural resources due to limited labour and market.

(6 mks)

5. Pie chart to show different land uses in British Columbia.

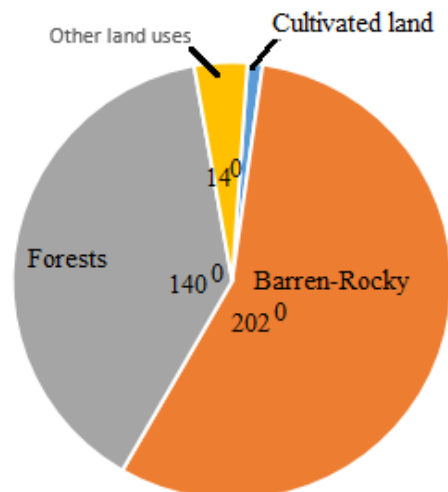
$$\text{Cultural land} \quad \frac{1.0}{100} \times 360^\circ = 3.6^\circ \approx 4^\circ$$

$$\text{Forests} = \frac{39.0}{100} \times 360^\circ = 140.4^\circ \approx 140^\circ$$

$$\text{Barren -Rocky} \quad \frac{56.0}{100} \times 360^\circ = 201.6^\circ \approx 202^\circ$$

$$\text{Other land uses} \quad \frac{4.0}{100} \times 360^\circ = 14.4^\circ \approx 14^\circ$$

A pie chart showing land use in British Columbia.



(b). Way in which Barren and rocky mountain are being utilized by man in B.C

- Growth of forest to support the forestry sector.
- Mining
- Tourism
- Education and research
- Recreation activities e.g. mountain climbing.

(Max 4)

(c). (i). Important activity related to the forests of B.C

- Lumbering

(01mk)

(ii). Factors favoring Lumbering in BC

- Presence of extensive forests that are sources of soft wood.
- Valuable tree species e.g. Balsam fir, western hemlock, pines, spruces etc.
- Rugged relief restricts other economic activity leaving lumbering as the most viable use of the Land.
- Numerous rivers that are used to transport logs to the processing centres.
- Stable power to operate the machines in the sawmills.
- Advanced technology e.g. use of electric chain saw and mobile steel spars that ease the work.
- Wide market for the forestry products in USA, Europe etc.
- Skilled labour to work in lumbering as lumberjacks, chokemen, buckers.
- Adequate capital from government to invest in lumbering.
- Presence of heavy rainfall that encourages the growth of forests.

(Max 6)

d (i). Problems faced by lumbering sector.

- Summer fires that destroy the forests
- Winter freezing affects logging and transport.
- Log jam along the rivers leading to delays.
- Shortage of labour due to competition from other sectors.
- Competition for market with other producing countries.
- Pests and diseases attack the trees hence reducing their quality.
- Wild animals
- Over exploitation of the trees.

(Max 4)

(ii). Solutions to the problems

- Aerial spraying
- Afforestation
- Time tabling of the forest activities
- Log high, log low
- Mechanization of all lumbering activities.
- Use of water bombers / establishment of fire control towers.

Max 3

(25marks)

Qn.6..(a). Any three

(i). States under the TVA

Alabama, Mississippi, Tennessee
Kentucky, Virginia, Georgia, south
Carolina North Carolina, Kentucky

(Max 3)

(ii). Rivers draining the area under TVA

- Mississippi
- Ohio
- Tennessee
- Cumberland

(3mks)

(b). Condition which led to the establishment of the TVA

- Regular flooding of R. Tennessee and its tributaries.
- Extensive soil erosion on the hilly slopes.
- Silting of the rivers hence affecting navigation.
- Too much rainfall leading to increased flooding.
- Waterborne pests and diseases e.g. malaria, bilharzia
- Food shortage / famine / malnutrition.
- Waterfall and rapids that affected navigation.
- Inadequate H.E.P
- High levels of unemployment due to fewer economic activities.

(c). Activities of the T.V.A

- Terracing of the hilly slopes
- Contour ploughing
- Afforestation and re-afforestation
- Construction of dams to generate H.E.P and control floods.
- Establishment of demonstration farms to teach farmers better methods of farming.
- Establishment of brushwood barriers.
- Establishment of industries to offer employment opportunities.
- Spraying
- Construction of canals to by-pass the water falls and rapids.

(Max 6)

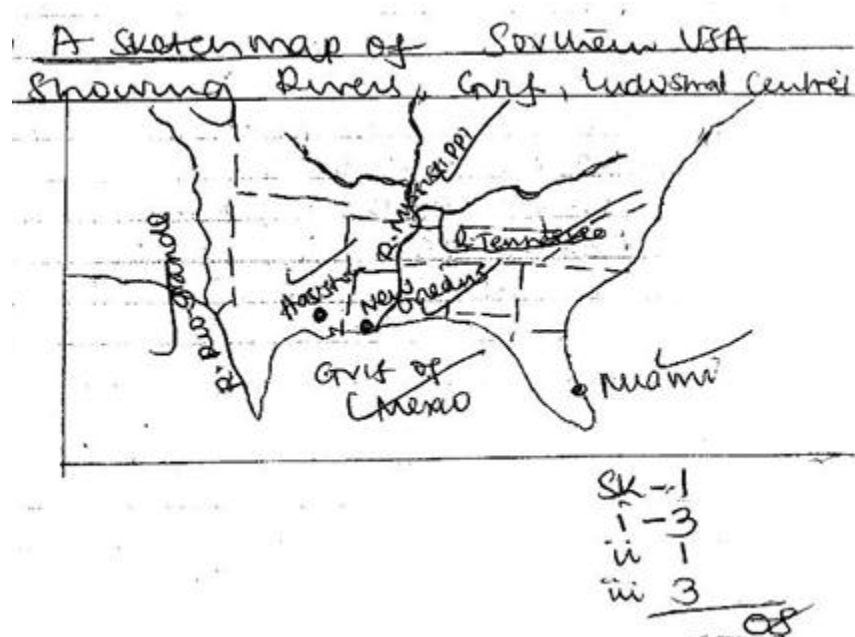
(d). Benefits of the T.V. A to USA

- Development of tourism leading to generation of foreign exchange.
- Employment leading to better standards of living.
- Generation of HEP for domestic and industrial use.
- Creation of man-made lakes that are sources of water for domestic irrigation and industrial use.

- Development of fishing in the man-made lakes
- Development of towns / ports e.g. Nashville, Huntsville etc.
- Source of income leading to better standards of living.
- Development of infrastructure e.g. roads, railways, canals etc.
- Control of flooding hence reduced waterborne diseases.

Max 7
(25mks)

Qn.7(a). A sketch map of southern USA showing Rivers, Gulf, Industrial centres.



(b).(i). Industries found in

<u>Houston:</u>	<u>New Orleans</u>	<u>Miami</u>
Oil refining	Ship building	Aero space
Chemical	Oil refining	Chemical
Textile	Petro-chemical	Textile
Food Processing	Textile	Cement
Ship building & Repair		making

(2mks)

(ii). Factors for the development of industries in the south of USA

- Large quantities of water for industrial use.
- Abundant supply of raw materials e.g. cotton, oil.
- Extensive land for establishment of industries.
- Adequate capital for investment

- Wide market for the industrial products.
- Efficient transport based on water, road and railway.
- Favorable government policy
- Advanced technology
- Stable power
- Skilled labour to work in the sector.

(Max 6)

(c). Effects of industrial sector on the environment in southern USA

- Foreign exchange earnings
- Revenue for the government
- Income leading to better S.O.L
- Provision of employment
- Diversification of the economy
- Promotion of international relations
- Development of infrastructure
- Development of towns
- Provision of consumer goods.

Negatives

- Environmental pollution
- Destruction of vegetation cover
- Loss of bio-diversity
- Increased global warming
- Formation of acidic rain
- Congestion in the industrial centres
- Urban related problems e.g. high crime rate.
- Exhaustion of minerals and other raw materials.

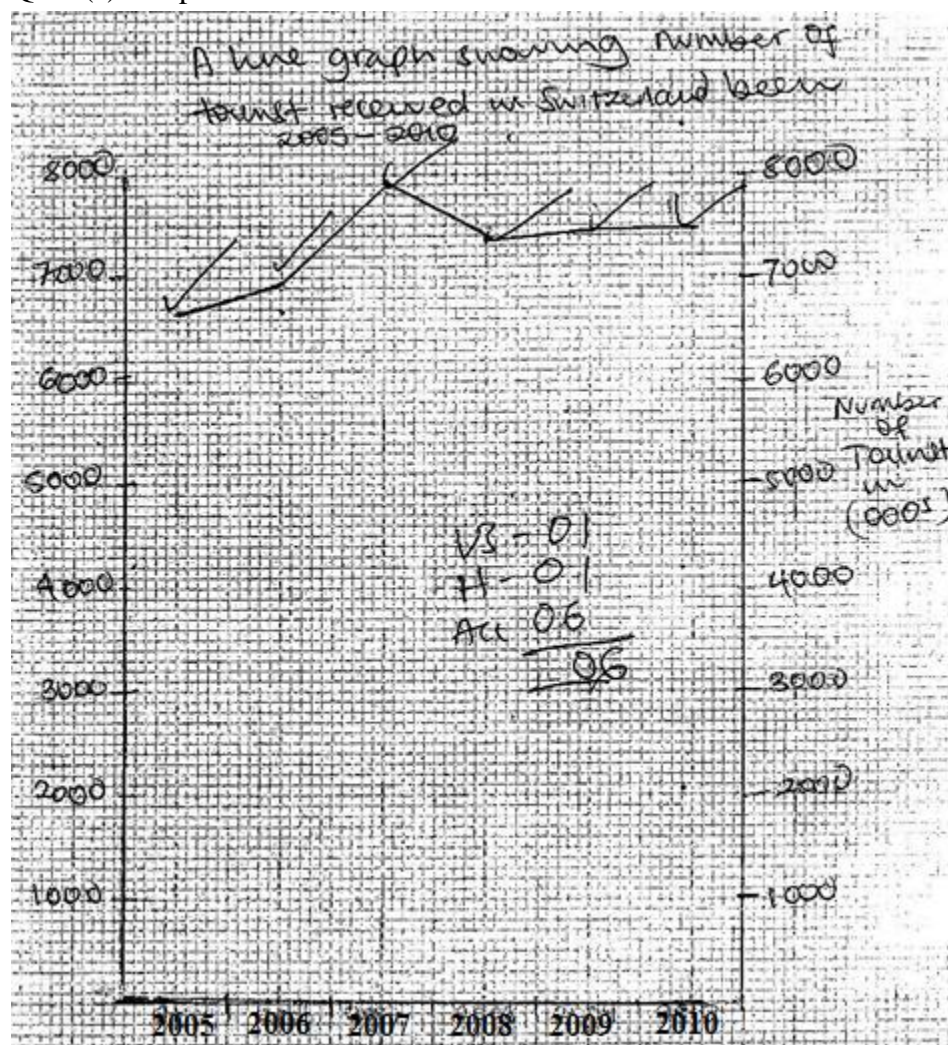
(Max 6)

(d). Measures being taken to improve industrial development in the south of USA.

- Automation of industrial activities
- Importation of labour
- Importation of raw materials
- Recycling of industrial wastes
- Treatment of wastes
- Market research development through training.
- Economic bail outs by government

Max 3

Qn.8 (a). Graph



(b).(i). Trend in the number of tourists received in Switzerland.

- There was steady increase in the number of tourist between 2005-2007
- Then a slight drop between 2007 – 2008
- Steady increase form 2008 – 2010

(Max 2)

(ii). Factors / Conditions that have favored the development of the tourism industry.

- Variety of tourist attractions e.g. mountain scenery, glacial features, rivers, lakes etc.
- Variety flora and fauna
- Hospitality of the Swiss people
- Neutrality policy
- Political stability
- Efficient transport makes tourist to work in the tourism sector.
- Lingual plurality breaks down the communication barriers.
- Numerous tour packages

- Intensive advertisement
- Central location helps Switzerland to tap visitors from different countries.

(6mks)

(c). Contribution of tourism to the development of Switzerland.

- Provision of employment to the people of Switzerland
- Source of income leading to better standards of living.
- Source of government revenue from taxation of the tour companies.
- Generation of foreign exchange since tourism is an invisible export
- Development of towns e.g. Zurich, Geneva, Davos etc.
- Diversification of the economy
- Development of infrastructure e.g. roads, railways.
- Promotion of international relations between Switzerland and countries from where tourists come.

(Max 6)

(c). Measures being taken to make the tourist sector more competitive.

- Intensive advertisement
- Electrification of the transport sector
- Introduction of competitive packages
- Importation of labour from neighboring countries.
- Diversification of accommodation facilities to cater for different categories of people.
- Diversification of tourist activities

(Max 3)

Total 25 marks

Qn. 9(a)

(i). Rivers A R. Scheldt

B R. Meuse

(02mks)

(ii). Canal 1 - Guent – Zelzate

(01mk)

(iii). Towns 2 - Antwerp

3 – Ghent

(02mk)

(iv). Land use 4 – Forestry

(01mk)

(v). Country 5 – Luxembourg

(01mk)

(vi). Waterbody C – North Sea

(01mk)

(b). Factors that favored the development of forestry in Belgium

- Presence of large tracts of forested land in the Ardennes region.
- Trees appear in pure stands therefore easy to exploit.
- Presence of moderately heavy rainfall encourage the growth of trees.
- Skilled labour to work in the sector
- Advanced technology that eases the exploitation of forests.
- Ready market for forestry products in Belgium and EU
- Large quantities of water from rivers for use in processing the timber.
- Stable powers to operate the machines in the sawmills.
- Favorable government policy that support the sector by providing capital.

Max 6

(c). Benefits of forestry to Belgium

- Source of raw materials for the sawmills.
- Promotes tourism leading to generation of foreign exchange.
- Provision of income leading to better standards of living.
- Generation of revenue from taxing the forestry sector.
- Promotion of international relations
- Diversification of the economy
- Development of towns / urban centres
- Development of infrastructure e.g. roads, railways.

(Max 6)

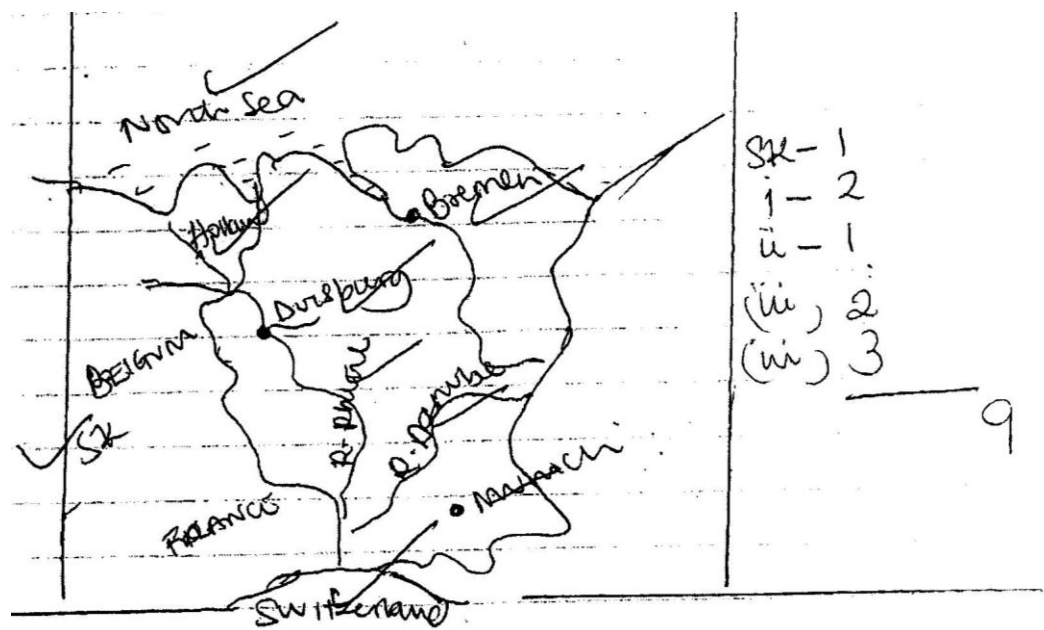
(d). Problems affecting the development of the forestry sectors.

- Competition from other producers Finland, Sweden.
- Shortage of labour due to completion from other sectors.
- Summer fires destroy the forest land.
- Accidents during exploitation
- High cost of production

Max 5

(25mks)

Qn. 10.(a). A sketch map of Germany showing rivers, North sea countries and towns.



(b)(i). Two industries found in

Munich

Iron and steel

Engineering

Motor vehicle manufacture

Chemical

Textile

Food processing

Duisburg

Chemical

Engineering

Electronics

Food processing

Bremen

Iron and steel

Chemical

Engineering

Motor vehicle

Any 2 (2mks)

(ii). Factors that led to industrial developments in Germany

- Vast land for establishment of industries
- Large supply of raw materials which are processed into finished products.
- Numerous Rivers provide water for industrial use.
- Skilled labour from the population to use in the industries.
- Positive government policy which attracts investors.
- Advanced technology leading to high output
- Efficient transport network for quick delivery of raw materials and finished products.

- Political stability that is attractive to investors.
- Stable power to run the industrial machinery. E.g. HEP, Thermal etc.

(Max 6)

(d). Benefits of industrial development to Germany.

- Foreign exchange
- Revenue
- Employment opportunities
- Development of infrastructure
- International relations through trade.
- Development of towns e.g. Bremen, Munich.
- Diversification of the economy
- Provision of consumer goods
- Income leading to better S.O.L

(Max 5)

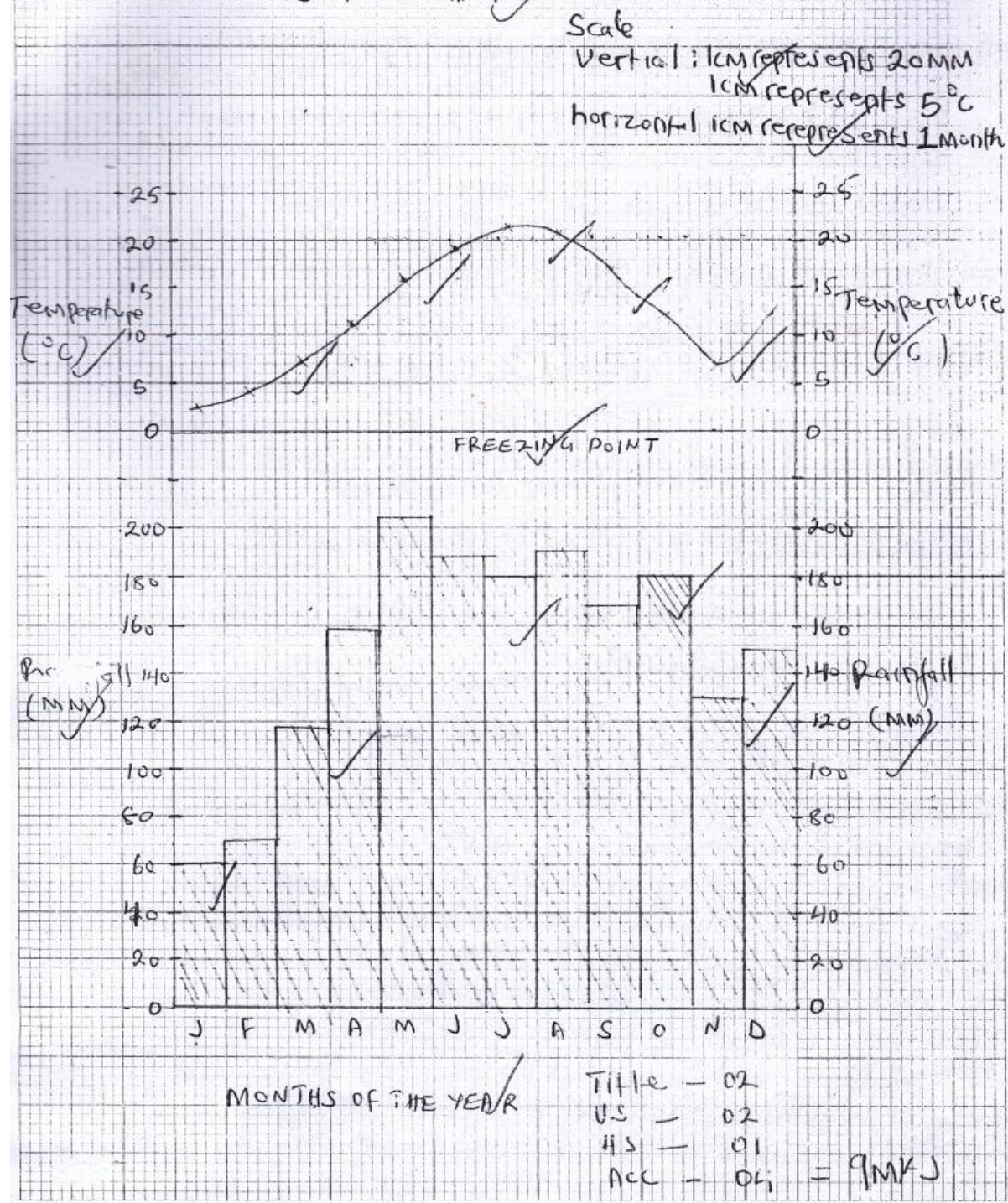
(c). Problems facing the industrial sector in Germany

- Inadequate raw materials
- Shortage of labour
- Competition of land
- High taxation by government
- Pollution etc.

(Max 3)

11. a)

NOTE: A BAR AND LINE GRAPH SHOWING THE CLIMATE STATISTICS OF KUNMING (CHINA)



b. (i) Mean annual Temperature = $\frac{\text{Sum of temperature for all months}}{12}$

$$\frac{2.3 + 3.6 + 7.3 + 11.3 + 15.5 + 19.4 + 21.3 + 20.8 + 17.5 + 12.3 + 7.1 + 11.5}{12}$$

$$\approx 12.5^{\circ}\text{C}$$

(ii) Annual temperature = Hottest temperature value – coldest temperature value

$$21.3 - 2.3 = 19^{\circ}\text{C}$$

(iii) $\frac{\text{Sum of all rainfall total for 12 months}}{1}$

$$= \frac{57 + 67 + 118 + 159 + 203 + 186 + 181 + 191 + 150 + 181 + 130 + 150}{1}$$

$$= \frac{1781}{1} = 1781\text{mm}$$

c). Characteristics of the climate of Kinning

- Hottest month is July with 21.3°C
- Coolest month is January with 2.3°C
- Wettest month is May 203 mm of rainfall
- Driest month is January with 57mm of rainfall
- The annual temperature range is high of 19°C
- The mean annual temperature range is 12.5°C
- Mean annual rainfall is high i.e 178 mm
- Rainfall is received throughout the year, though declines during the months of December to March.
- Temperatures are cold during November to March

Any 5x1 = 5 marks

(ii) How the climate has influenced agricultural activities

- Planting of crops during March since it starts the wet season.
- Harvesting of crops during the start of the dry season in November.
- Irrigation farming is practiced between November to March to supplement the low rainfall received.
- Some farmers rest between months of November to March in preparation for the wet season.
- Clearing of new plots and buying seeds during the season of November to March.
- Heavy rainfall received throughout the year encourages plantation farming.

d). Problems facing farmers in Kunming

- Flooding during the wet season leading to destruction of crop fields.
- Aridity in some months (November – March) which discourages cultivation.
- Torrential downpours which destroy crop fields.

- Price fluctuations which affect incomes of farmers.
- Soil exhaustion leading to low crop yields.
- Inadequate labour to work on the farms leading to delays.
- Competition for market leading to losses.
- Outbreak of pests and diseases reducing quality and quantity of yields.
- Limited land for extensive farming reducing crop yields.

Any 3x1 = 3 marks

12. a) (i) River marked A & B

A- River Mekong

B- R. Si-Kiang

(ii) Water body marked C.

C-Gulf of Tong King

(iii) Towns marked 1& 2

1- Kunming 2- Jinhong

(iv) Countries marked 3 & 4

3-Burma 4- Vietnam

1 mark @; total 7 marks

b) (i) Minerals, coal, iron ore, zinc, tin

any 2x1 = 2 marks

(ii) Sources of energy: coal, oil, bio gas, H.E.P, Solar

any 2x1 = 2 marks

c). Factors which have limited the development of the mining sector in the Yunnan region of China.

- Existence of minerals in small reserves which are uneconomical to mine.
- Inaccessibility of some areas due to the rugged terrain in the Yunnan province.
- Scattered minerals reserves limit their exploitation.
- Accidents in the deep copper mines leading to death of people.
- Price fluctuations on the world market arising from the stiff competition which affects projected profits.
- High costs of mining which affects the profits from mines.
- Exhaustion of mineral deposits affecting projected production.
- Completion with other mineral producers in the world reducing market.
- Labour shortage leading to delays in the mining process.
- Competition from mineral substitutes such as plastics, rubber and wood reducing market for minerals.

Any 8x1 = 8 marks

d). Measures being taken by China to develop the Yunnan region

- Construction of transport and communication lines to improve accessibility.

- Terracing to improve cultivation on the steep slopes.
- Establishment of mining companies such as Jiangxi copper cooperation, copper metallurgical group etc.
- Establishment of industries to provide employment to the citizens of Yunnan.
- Terracing to improve and contour ploughing to provide employment to the citizens of Yunnan.
- Application of fertilizer to improve soil fertility.
- Construction of H.E.P stations to avail energy for domestic and industrial purposes.
- Extension of credit facilities to the Chinese to boost investment in the Yunnan region.
- Agricultural modernization to improve food production in the region.

Any 6x1 = 6 marks

13. a). SKETCH MAP OF THE SIKIANG RIVER BASIN SHOWING RIVERS, HONG-KONG ISLANDS, GULF OF TONG KING AND TOWNS

Refer to last page

b) (i). Types of farming carried out in the Kiang river basin

- ✓ Arable farming
- ✓ Mixed farming
- ✓ Livestock farming

Any 2x1 = 2 marks

(ii). Conditions that favoured development of agriculture in Sikiang river basin

- Fertile alluvial soils which support growth of a variety of crops.
- Warm sunny summer conditions ideal for ripening of crops.
- The 220 frost free days which increase the period of the growing season.
- Heavy rainfall received from May to October which boosts growth of crops.
- Existence of rivers e.g. Sikiang and Tung kiang which provide water for irrigation.
- The gently sloping areas which encourage mechanization well developed transport and communication lines linking farms to markets.
- Availability of adequate skilled labour to work on the farms.
- Land reclamation has expanded the area for agricultural activities.
- Availability of a wide market provided by the large population encourages investing into agriculture.
- The development of agro based industries has encouraged farming activities.
- Abundant cheap skilled labour.
- Research has increased quality and quantity.
- Appropriate technology through irrigation and use of tractors.

Any 6x1 = 6 marks

c). Effects of agricultural activities on the environment of Si-kiang. NB: Both positive and negative

POSITIVE

- Source of forex used to develop other sectors.
- Source of employment which earns income to farmers.
- Source of government revenue through taxes used to develop infrastructure.
- Boasted industrial growth in the region.
- Economic diversification reducing over dependence on agric.
- Development of infrastructure particularly roads which improves people's standard of livings.

NEGATIVE

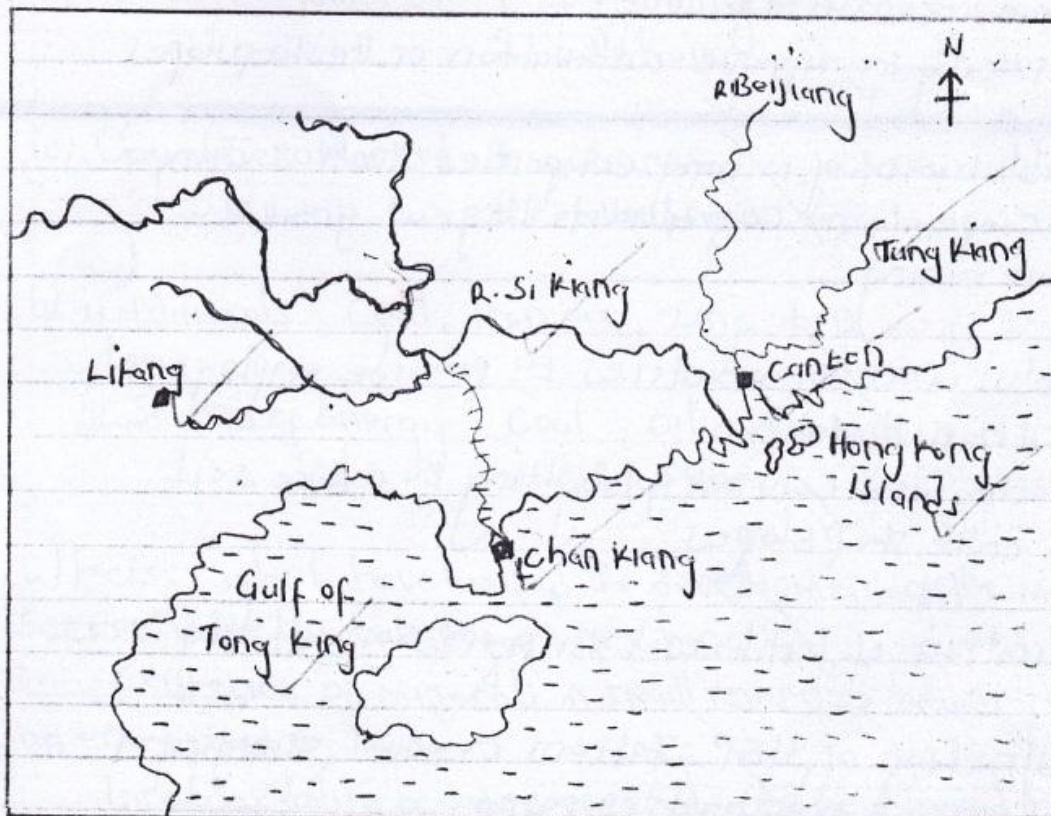
- Pollution of the environment through pesticides and herbicides.
- Destruction of vegetation cover to create land for farming.
- Soil exhaustion resulting from over use of the land by farmers.
- Agriculture has accelerated soil erosion leading to environmental degradation.
- Compaction of soils due to use of heavy agricultural machinery leading to creation of hardpans.

d). Measures being taken to improve the agricultural sector in the Si-kiang river basin

- Use of organic and artificial fertilizers to improve soil fertility.
- Dredging with pesticides to control pests and diseases.
- Construction of dykes to control floods.
- Land reclamation from swamps to increase land for farming.
- Construct of reservoirs to store water for irrigation during the dry season.
- Introduction of new crops to improve agricultural diversification.
- Extension of loans to boost agricultural investments.
- Establishment of agro-based industries to add value to agricultural products.

Any 5x1 = 5 marks

13a) THE SKETCH MAP OF THE SI KANG RIVER BASIN SHOWING RIVERS, HONG-KONG ISLANDS, GULF OF TONG KING AND TOWNS



■	Towns	1 - 2
~	Rivers	11 01
- - -	Water bodies	110 01
		101 3

7 MKS

END