# GEOGRAPHY 2248

Past Question Papers and Expected Answers

2000 - 2001

Zimbabwe School Examinations Council Upper East Road, Mt Pleasant, HARARE

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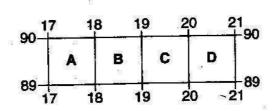
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#### Mapwork

Questions 1 to 12 refer to the 1:50 000 map of Gwanda (Zimbabwe).

1. Which grid square has the largest number of buildings and huts?



- 2. What is the main source of water for the Reservoir and Irrigation Scheme in grid square 1990?
  - A Hulube dam
  - B Nkazhe dam
  - C Sabazimba dam
  - D Samakuto river
- 3. Which feature is located at point 090828?
  - A mining dump
  - B rail bridge
  - C sewage tank
  - D sports stadium
- 4. What is the grid reference of the Trigonometrical Station on the top of Mt Cazalet, south of the Gwanda town?
  - A 081812 B 082811 C 098829 D

Questions 5 and 6 refer to the two Trigonometrical Stations in grid squares 1084 and 1485.

- 5. What is the straight line distance between the two Trigonometrical Stations?
  - A 3500 metres B 4000 metres C 4500 metres D 5000 metres
- 6. What is the grid bearing of the Trigonometrical Station in grid square 1485 from the Trigonometrical Station on Spitzkop in grid square 1084?
  - A 076°
- B 104°
- C 256°
- D 284°

099828

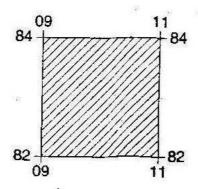
- 7. In which direction is the general flow of the river Nkazhe, through the Matshetshe Communal Land?
  - A north-west to south- east
  - B north-east to south-west
  - C south-east to north-west
  - D south-west to north-east
- 8. From a hill-top a person can see a Business Centre to the north-east.

In which grid square is this hill-top located?

- A 1084
- **B** 1485
- C 1589
- D 2188
- 9. Where is settlement in the Matshetshe Communal Land mainly located?
  - A along major river channels
  - B along tarred roads
  - C around large dams
  - D around the edge of cultivated land
- 10. The map shows some evidence of mining activity in grid square 0987.

Which type of evidence is not shown in this grid square?

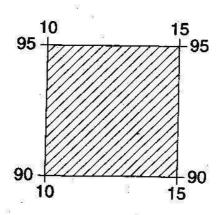
- A Excavation
- B Mine dump
- C Mine name
- D Prospecting trench
- 11. Study the map area shown.



Which type of land use occupies the most land in this map area?

- A mining
- **B** recreation
- C settlement
- **D** transport

### 12. Study the map area shown.



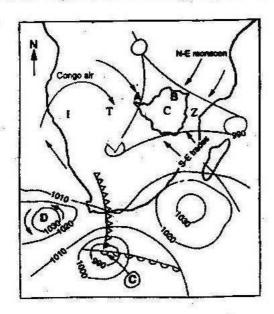
What is the main drainage pattern in this area?

- A dendritic
- **B** radial
- / C rectangular
  - D trellis

### Physical Environment

13. The weather map shows the average pressure and wind pattern in southern Africa for the month of December.

Which area experiences divergent air masses?

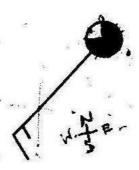


KEY

AAAAA cold front

AAAAA warm front

14. The diagram shows weather recorded at a school weather station.

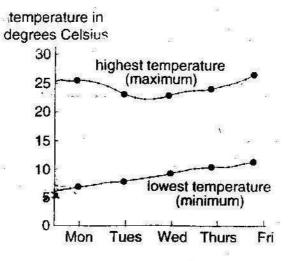


What is the cloud cover and wind direction shown in the diagram?

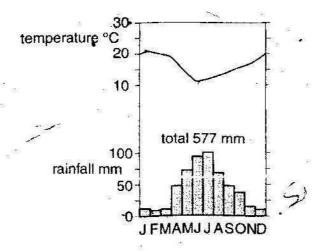
458K 00	cloud cover (eighths)	wind direction
Α	5	north-east
В	6	south-west
C	7	south-west
D	8	north-east



The diagram shows the maximum and minimum temperatures recorded at a 15. school weather station.



- What was the average temperature for the station on Monday? D 32°C B 16°C C 8°C
- The diagram shows average temperature and rainfall at a place. 16.



- Which climate is represented by the graphs?
- Equatorial \* A

A 7°C

- В Hot desert if
- Mediterranean C
- Tropical continental
- Which human activity may lead to the formation of acid rain? 17.
  - cloud seeding A
  - deforestation В
  - hydro-electric power generation
  - manufacturing

- 18. Which instrument is used to measure earthquake vibrations?
  - A anemometer
  - **B** barometer
  - C hygrometer
  - D seismometer
- 19. The photograph shows a rock feature common in Zimbabwe.

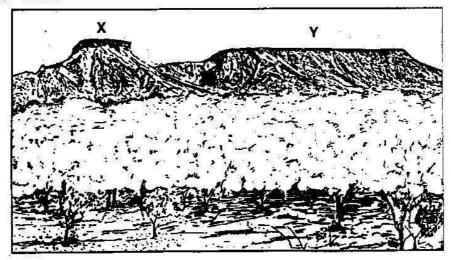


What is the main process responsible for shaping the surface of the rock feature?

- A biological weathering
- **B** carbonation
- C exfoliation
- D freeze-thaw
- **★20.** Which conditions are needed for a river delta to form?
  - A abundant coral at the river mouth
  - B steep descent to the river mouth.
  - C very salty water near the river mouth
  - D weak sea currents near the river mouth
- \*21. Which process is mainly responsible for the formation of pot holes on a river bed?
  - A attrition
  - B corrasion\*
  - C deposition
  - D . solution

Abrasion

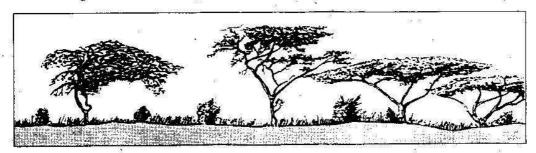
**22.** The diagram shows a type of landscape commonly found in arid and semi-arid areas.



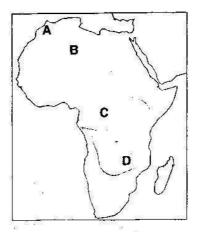
What are landscape features X and Y?

	x	Y
Α	butte	mesa
В	butte	yardang
C	zeugen	mesa
D	zeugen	yardang

23. The diagram shows a type of natural vegetation.

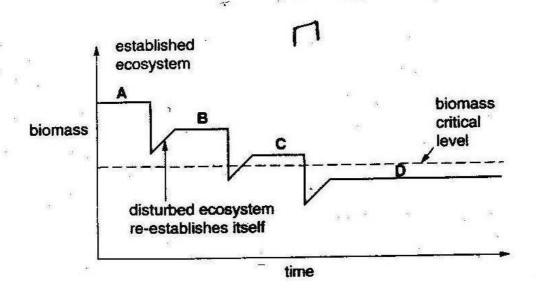


Which place on the map has this type of vegetation?



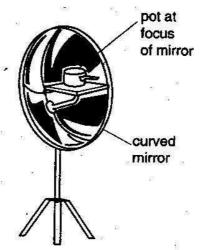
- 24. Which term is used to describe the highest level of succession of vegetation and animal life in an ecosystem?
  - A climax community
  - **B** pioneer community
  - C plagio-climax community
  - D succession community
  - 25. The diagram shows the vegetation and animal matter (biomass) in an ecosystem over time.

At which stage is it most critical to introduce conservation measures, like destocking, to save the animal life and protect the environment?



#### **Economic Geography**

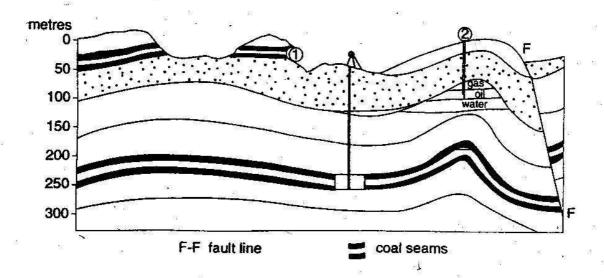
26. The diagram shows a cooker suitable for rural communities in developing countries.



Which type of energy is used by the cooker?

- A biogas
- **B** firewood
- C hydro-electricity.
- D solar

→ 27. The diagram shows rock structure containing a number of minerals.



Which mining methods are being used at 1 and 2 respectively?

	1	2
Α	adit	drilling
В	adit	panning
C	shaft	drilling
D	shaft	panning

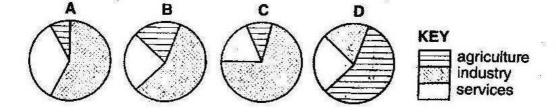
2248/1 J2000

- 28. What is the main method used for gully reclamation in Zimbabwe?
  - A afforestation
  - **B** contour ridging
  - C infilling
  - D terracing
- 29. Which type of farming is most suitable for areas where there is plenty of land, poor soil fertility, low rainfall and effective disease control?
  - A commercial ranching
  - B market gardening
  - C plantation agriculture
  - D shifting cultivation
- 30. Why is tobacco usually cured on the farms where it is grown?
  - A to avoid leaf deterioration
  - B to reduce transport costs
  - C to supply the local farm market
  - D to use local fuelwood
- 31. Governments of Third World countries are encouraging the establishment of processing industries at growth points in rural areas.

The most probable reason for this policy in Africa is

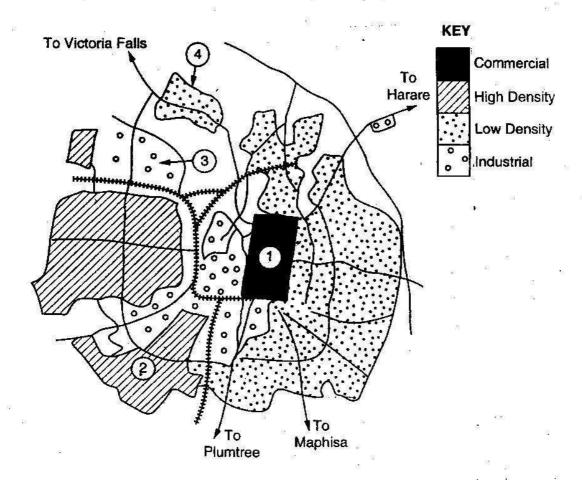
- A the availability of local markets.
- B to encourage people to stay in established towns.
- C to reduce migration into the main cities.
- D to encourage the decentralisation of administrative functions.
- 32. What attracts the majority of tourists from North America and Western Europe to Zimbabwe?
  - A business opportunities
  - B mountains and limestone caves
  - C stone ruins and hotels
  - D sunshine and wildlife
  - 33. The pie charts show percentages contributed by agriculture, industry and services to the gross national product (GNP) for four countries.

Which country has the least developed economy?



#### Population, Settlement and Trade

#### 34. The map shows land use zones in a city.

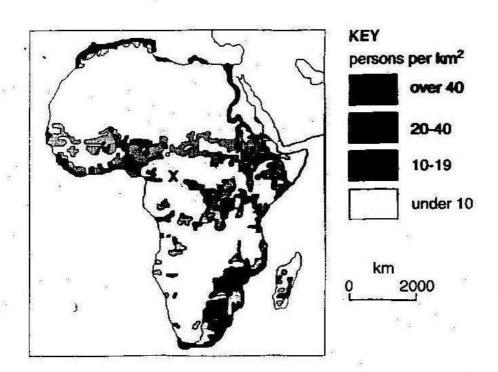


The manager of a computer company lives in a big house with a large garden.

Which land use zones represent her place of work and residence?

	place of work	place of residence
А	1	2,
В		4.
C	3	2
D	3	4.

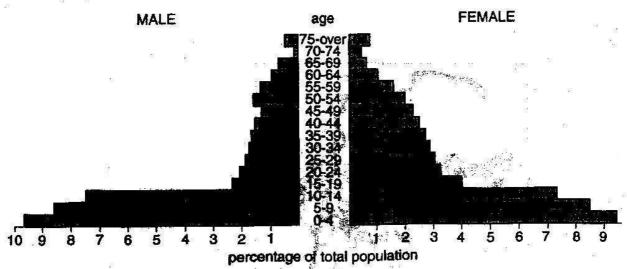
35. The map shows the distribution of population in Africa.



Why does area X have a low population density?

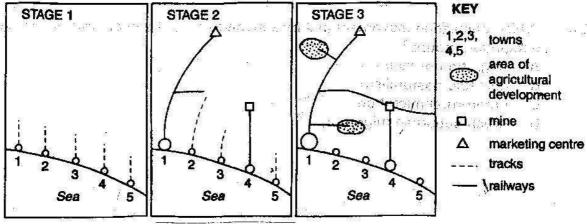
- A It is a desert.
- B It is cold and windy.
- C It is hot and humid.
- D It is mountainous.
- 36. Which population movement in Africa involves only the economically active population groups?
  - A migration of labour to mines
  - B nomadic pastoralism
  - C urban-rural migration
  - D urban-suburban migration

37. The graph represents the population structure of a settlement in a developing country.



Which type of settlement is represented by the graph?

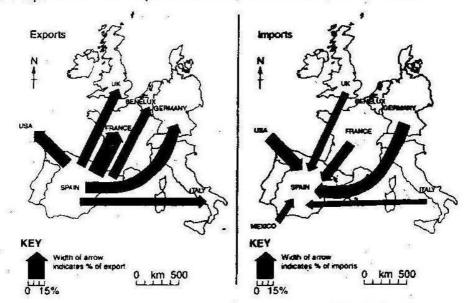
- A army camp
- B capital camp
- C mining town
- D rural village
- 38. Which of the following is not an advantage of the use of containers for bulk transport compared with traditional methods?
  - greater variety of cargoes
  - B\* more jobs provided
  - C quicker loading and unloading
  - D reduced losses
- 39. The model shows how some African countries developed transportation links from colonial times (Stage 1) to modern times (Stage 3).



Why has town 1 become the largest of the five original points of entry (1 to 5)?

- A It developed originally for exporting minerals.
- B It has a developed network with its hinterland.
- C It has the best natural harbour.
- D It is the shortest distance from areas of agricultural development.

The maps show the exports and imports from Spain in 1990.



With which country did Spain have the largest trade deficit?

- A France
- **B** Germany
- c UK
- D USA

Copyright Acknowledgements:
Question 19 6 E M Munowenyu

#### 2248/01

1.

#### **POSSIBLE ANSWERS**

#### MAPWORK (1:50 000 GWANDA)

2. B

A

A

3. B 4.

В

- 4%
- 5. C 6.
- 7. A 8. C
- 9. D 10. A
- 11. C 12. A

#### **ECONOMIC GEOGRAPHY**

- 26. D 27. A
- 28. C 29. A
- 30. A 31. C
- 32. D 33. D

#### PHYSICAL ENVIRONMENT

- 13. D 14. B
- 15. B 16. C
- 17. D 18.
- 19. C
- 20. D

D

- 21. B
- 22. A
- 23. D
- 24. A
- 25. C

120

POPULATION, SETTLEMENT AND TRADE

- 34. B
- 35. C
- 36. A
- 37. D
- 38. A
- 39. B
- 40. A

123

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# ZIMBABWE SCHOOL EXAMINATIONS GOUNCIL

ral Certificate of Education Ordinary Level

EOGRAPHY

APER 2

resday

**6 JUNE 2000** 

Morning

2 hours 30 sounds

Additional materials: Answer paper

TIME 2 hours 30 minutes

#### INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer four questions.

Answer one question from each of Sections A, B and C and one other question from any section.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

#### INFORMATION FOR CANDIDATES

The number of marks\_is given in brackets [] at the end of each question or part question.

Insert-1 contains Photograph A for use with Question 2.

Insert 2 contains Photograph B for use with Question 6 and Photograph C for use with Question 7.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

This question paper consists of 10 printed pages, 2 blank pages and 2 inserts.

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Turn over

## Section A (Physical Environment)

Answer at least one question from this section.

1.	(a)	(i)	Draw labelled diagrams to show stages in the formation of sedimentary rocks.	<b>[5]</b>
125	g; E	(ii)	How do either pressure release or acid rain affect the rate and type of weathering of rocks?	[4]
	(b)	Fig.	1 below shows part of a river valley.	68

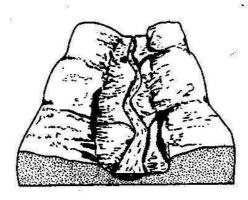


Fig. 1

	(i)	Describe the features of the valley shown.	
	(ii)	What changes would occur to the valley if there was a sudden uplift of the land?	[3]
ŝi	(iii)	State three problems likely to be faced by people living in the valley as a result of the sudden uplift referred to in (b)(ii) above.	[3]
(c)	Sug	gest the benefits and problems associated with either an	[6]

(complete differences for 2 marks)

2 marks

#### (ii) Description

#### Explanation

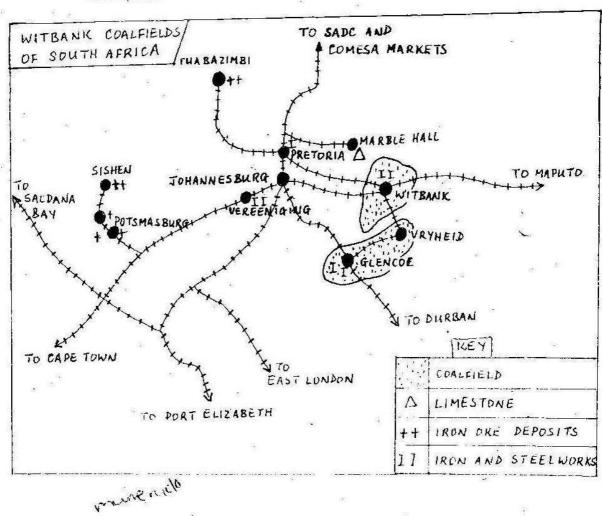
low and stable production primitive people using the resource low demand, poor technology sharp rise high demand, improved technology, more people. stable peak renewable, can be maintained, conservation. slight decline over use at that point of time constant regeneration or rebuilding lise conservation, environmental awareness constant conservation. high and fluctuating increase in population

pressure on resource.

1 mark each

8 marks 10

(b) name fixing features description



#### Factors include:

- good communication lines by rail and road.
- Large urban markets provided by industrial cities like Pretoria, Johannesburg, etc.
- TPs that use coal
- Sasol plants that use coal as a raw material
- The iron and steel industry that uses coal
- Ports for exports
- Large population providing capital labour and market
- Favourable geological structure, e.g. stable seams with little fracturing
- Water from the Vaal and Orange river projects.

7 marks

1 mark for Name, 3 marks for using fixing features and 3 marks for description/ factors.

(c) Threats - over exploitation, pollution, siltation.

<u>Explanation</u> pollution leads to death of aquatic life, health hazard, lack of clean water, creates various water borne diseases.

<u>Measures</u> control pollution, legislation, recycling, treating water, purifications, education, underground water.

1 mark each

8 marks

8 [25]

5. (a) (i) A - silo B - supermarket 2 marks

(ii) Advantage

Disadvantage

Granary

cheap
aeration
accessible to the
farmer, near consumer

can collapse,

decompose, exposed to adverse weather, theft, can catch fire.

Cold room

fresh products
long lasting storage,
no contamination/
disease free

expensive to erect and maintain, requires and uses a lot of electricity, power failure

#### Silo

bulk storage safe from weather elements and theft, durable. far from the farmer and consumer, expensive to build and maintain, needs bulky transport.

1 mark each

8 marks

(iii) provides capital, expansion of farming activities, better implements, better storage, more production.

1 mark each

3 marks

(b) Organisations

ZTA, Dairiboard Zimbabwe, CFU, Cotton Company of Zimbabwe, ZFU, AFC, Seed-coop, Cargil, Pioneer and etc.

Services

finance, training, research, technology, Marketing inputs, diseases control, banking services, investment opportunities.

1 mark each

5 marks

(c) For reducing land pressure, equal distribution of resources, increased production, improved income and standard of living, use or utilisation of land lying idle, employment of locals, improved income and living standards, earning a living, correcting historical injustices.

Against

environmental degradation, poor conservation, lack of infrastructure, lack of capital by resettled farmers and government, corruption, no loans for new farmers, conflict between government and commercial farm owners, conflict between new and former farm owners, decline in export crops, decline in crop production and food supply, decline in agro-based industries, negative publicity, negative impact on economy.

7 [25]

6. (a) (i) trading, clothes hanging, clothes in piles, clothes on ground, a lot of people, open air trading, sheds in the background, little vegetation, cloudy day, telephone poles, untidy, colourful clothes, women seated on ground, houses, disorganised, mainly women, bartering, a flea market.

5 marks by 1/2

hardships, retrenchments, goods provision, negotiable prices.

hardships, retrenchments, goods provision, negotiable brices, empowerment of women.

1 mark each

4 marks

(iii) capital, training, factory units, shops, trading licences, provide stands, provide water and sanitation.

1 mark each -

4 marks

(b) <u>Fixing features</u> Raw materials, transport, market, labour, water power.

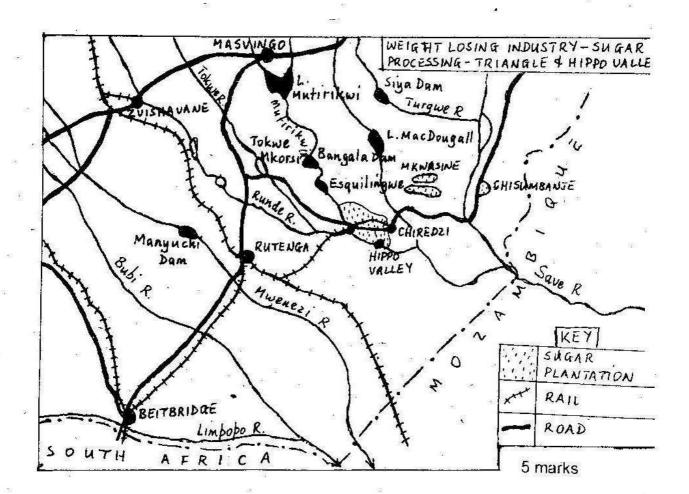
e.g.

Weight losing

Sugar, timber, tea, ginneries, iron and steel.

Weight gaining furniture, breweries, soft drinks, glass industries,

clothing, assembling industries.



(ii) less capital needed, employment, cheap goods, no need for permanent structures (portable industry), government encouragement for self reliance or self - employment, economic hardships, retrenchments, goods provision, negotiable prices, empowerment of women.

1 mark each

4 marks

13

(iii) capital, training, factory units, shops, trading licences, provide stands, provide water and sanitation.

1 mark each

4 marks

(b) <u>Fixing features</u> Raw materials, transport, market, labour, water

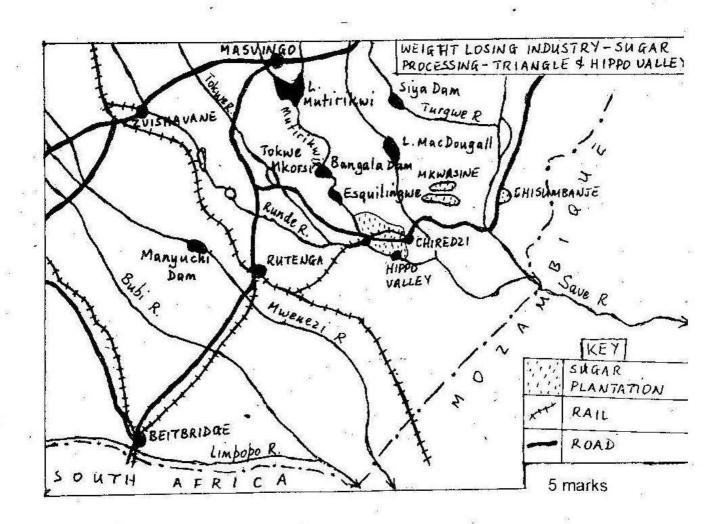
power.

e.g.

Weight losing Sugar, timber, tea, ginneries, iron and steel.

Weight gaining furniture, breweries, soft drinks, glass industries,

clothing, assembling industries.



(c) Causes lack of water, poor market, government policy on remittance of profits, taxation, lack of skilled labour, attractions of Harare e.g. labour and market; agglomeration factor, political instability.

**Effects** 

Industrial decline, unemployment, out migration, lack of development, underutilisation of infrastructure, ghost towns, physical decay of settlement, rise in crime, loss of market.

-1 mark each

7 [25]

(Reserve 3 marks for either causes or effects)

degraded, poor mud huts, poor blair toilets, poor fencing, dirty 7. (i) (a) and untidy, rural, deforested, dry, old zinc roof, brick huts, crowded huts. 1 mark each

4 marks

Lack of fire wood, reduced production, diseases from dusty (ii) conditions, famine, diseases from the toilets, lack of draught power, lack of pastures resulting in death of animals, reduced protein intake. 4 marks 1 mark each

resettlement, destocking, family planning, growth points, (iii) migration, conservation, improve agricultural production, villagisation, birth control, education.

1 mark each

4 marks

12

90% (b) (i)

1 mark

48 to 50% (ii)

1 mark

Description

Explanation •

more males

- cultural/historical

- lack of education among females.

15 - 24 rises for both but higher in males

- more females and males from schools.

- males are more,

- employment age.

25 - 54 both fairly high and uniform

working age

55 - 65 general drop in both bigger drop in males

 retirements, deaths and retrenchments.

lowerlife expectancy, culture

#### Alternatively

consider specific and individual comparison or descriptions of age groups or males and females

1 mark each

(Reserve 3 marks for description or explanation)

8 marks

10

(c) lack of education, prestige, free/cheap labour, importance of the male child, resistance to change or new ideas, reduced access to contraceptives, early marriages, cultural/religious practices.

1 mark each

3 [25]

#### 8. (a) Characteristics

tall buildings high human traffic high motor traffic commercial functions centrally located little industrial activities little residential population

planning

1 mark each

#### Explanations

limited space commercial centre commercial centre high number of people heart of the city, route focus expensive rents and limited space. expensive land and use mainly commercial.

to use space economically

7 marks

#### (b) (i) Location

S.W

#### Explanation

close to industries, close to transport system.

upgraded squatter settlements, Outskirts of the city expansion of new residential areas. Mabvuku and Tafara domestic labour for Highlands (East) domestic labour for Hatfield. S.E. Epworth North - Hatcliffe domestic labour for Borrowdale South - Chitungwiza dormitory or new residential areas. Mbare oldest residential area, closer to C.B.D and industries for labour. West - Dzivarasekwa, Domestic labour for Mabelreign Kuwadzana 1 mark each 6 marks /(ii) · - Mukuvisi brings pollutants from industries and residential areas - Manyame - pollution from Chitungwiza - Squatter settlements along rivers bring pollution. Cultivation along the two rivers causes pollution. - Chemicals from commercial farms along the rivers cause pollution. 1 mark each 3 marks far from residential areas/noise pollution, accessible by road, no (iii) other landuses, flat vacant land available. 1 mark each 2 marks prostitution, crime, drugs, theft, pollution of land, water and air, land degradation, diseases, lawlessness, beggars, street kids, poaching, stock theft, deforestation, dirty, poor sanitation. 1 mark each 7 marks [25] generally poor forms of transport, inadequate modern transport, (i) poorly developed roads, reliance on traditional means of transport, slow and inefficient transport. 1 mark 4 marks (ii) land degradation, goods going bad, carry little volume, death of animals, 1 (one) bus is very unreliable, breakdown of bus due to

(c)

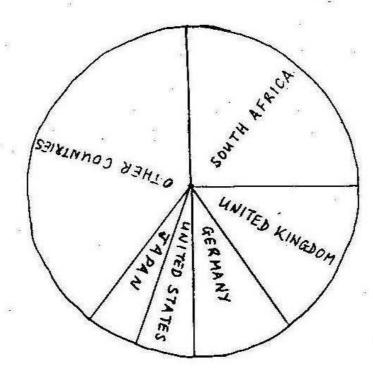
(a) ·

9.

poor dust roads, bus may be withdrawn, poor marketing of goods, overcrowded bus, overcharging, corruption.

9 3	1 mark each	4 marks
(iii)	Solution	Explanation/Reason
g	tarring	attract more buses, improve speed, reduce break downs.
	banning use of sledges	to reduce land degradation, to reduce soil erosion.
	introduce tractors	to eliminate use of sledges and animal power.
	increase bicycles	environmentally friendly, increase mobility, cheaper, no fuel problems.
2002	1 mark each	7 marks 15
	S .	1.0





3 marks by 1/2

(ii) port facilities, nearness, friendly relations, former colonial links, more transport facilities, civil wars in Mozambique and Angola, (reduced northern routes), greater diversity and larger economy in South Africa, SADC links, TNCs operating in Zimbabwe have headquarters in South Africa.

1 mark each

5 marks

- (ii) Countries very far except for South Africa, very well developed partners hence controls prices.
  - colonial suppresses or dictates to Zimbabwe pegs prices.
  - over-dependence on South Africa.
  - landlocked position
  - shortage of forex
  - unfavourable trade balance.

1 mark each

2 marks

10

[25]

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

### **GEOGRAPHY**

2248/1

PAPER 1 Multiple Choice

Friday

3 NOVEMBER 2000

Afternoon 1 hour 15 minutes

The 1:50 000 Concession Map is enclosed with this question paper

Additional materials: Multiple choice answer sheet Soft clean eraser Soft pencil (type B or HB is recommended)

141542

TIME

1 hour 15 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so by the invigilator. Write your name, Centre number and candidate number on the answer sheet in the spaces provided unless this has already been done for you.

There are forty questions in this paper. Answer all questions. For each question there are four possible answers, A, B, C and D. Choose the one you consider correct and record your choice in soft pencil on the separate answer sheet. Read very carefully the instructions on the answer sheet.

#### INFORMATION FOR CANDIDATES

Each correct answer will score one mark. A mark will not be deducted for a wrong answer. Any rough working should be done in this booklet.

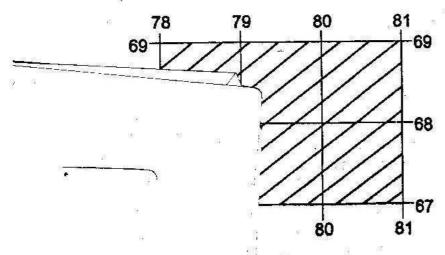
This question paper consists of 16 printed pages.

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#### Mapwork

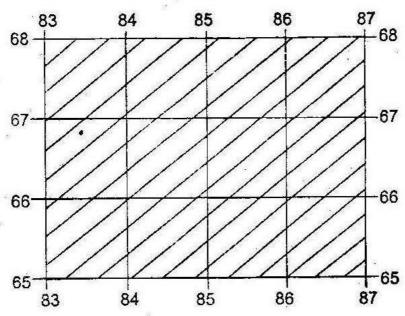
Questions 1 to 12 refer to the 1:50 000 map of Concession (Zimbabwe).

- 1. In which direction is the general flow of the Murowodzi river (grid squared 7671)?
  - A south westerly direction
  - B northerly direction
  - C westerly direction
  - p north easterly direction
- 2. In which grid square do you find a dip tank, a reservoir and buildings?
  - A 7865
  - B 7570
  - C 7874
  - D 7168
- 3. The feature found at grid reference 774741 is
  - A a dam.
  - B an ox-bow lake.
  - C a seasonal marsh.
  - D a reservoir.
- 4. What is the length of the aerodrome landing area in grid square 7673?
  - A 600 metres
  - B 800 metres
  - C 1 000 metres
  - D 1 200 metres
- 5. What map evidence suggests that the area of the map extract shown below is a mining area?



railway reservoirs quarries mine dumps

- 6. The bearing of the spot height (794647) from the trigonometrical station in grid square 8269 is
  - A 038°.
  - B 052°.
  - C 180°.
  - D 218°.
- 7. The shaded area shows a plantation.

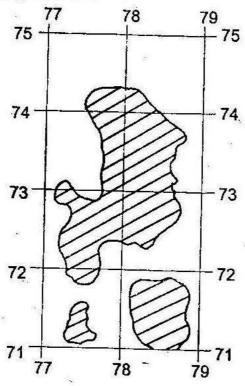


Which of the following suggests that irrigation is used in the area?

- A seasonal marsh
- B perennial rivers
- C furrows
- D boreholes
- 8. What is the altitude of the reservoir in grid square 7867?
  - A 1340 metres
  - B 1320 metres
  - C 1300 metres
  - D 1280 metres

2248/1 N2CC.

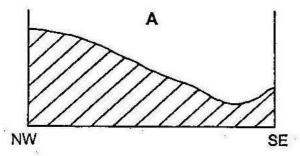
9. Study the map area shown.

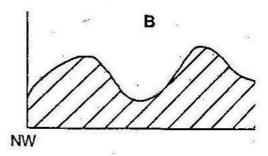


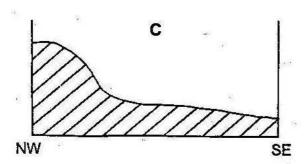
The shaded areas show

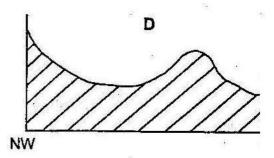
- A medium bush.
- B dense bush.
- C sparse bush.
- D very dense bush.

10. Which sketch section represents the land surface from the trigonometrical station in grid square 7871 to the spot height in grid square 8270?

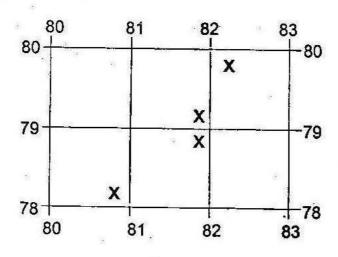








11. The diagram shows four locations on the map where a type of activity takes place.

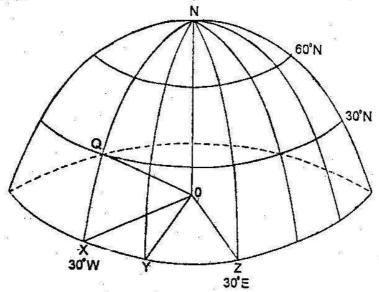


KEY: X = ACTIVITY

Which activity is taking place at the four locations?

- A recreation
- B education
- C agriculture
- D commercial
- 12. The settlement pattern of the staff quarters shown in grid square 8465 is
  - A nucleated.
  - B linear.
  - C scattered.
  - D circular.

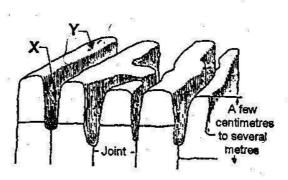
13. The diagram shows lines of latitude and longitude in the northern hemisphere.



Which one of the following angles shown on the diagram above is longitude 30°W?

- A angle XOQ
- B angle XOZ
- C angle NOX
- D angle XOY





The diagram shows a landscape formed by weathering in limestone areas?

The features marked X and Y are called

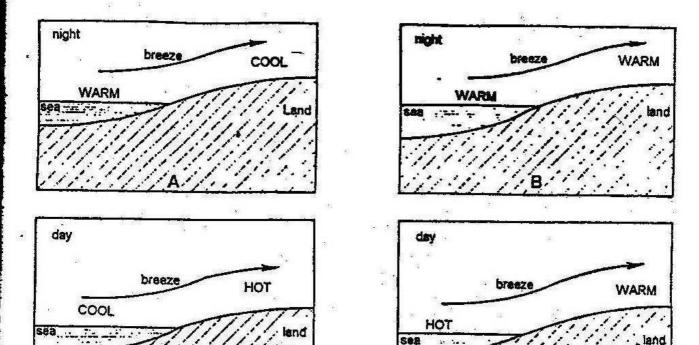
- A rift valley and horst.
- B grikes and clints.
- C anticlines and synclines.
- D wadis and playas.

2248/1 N2000

Students visiting a volcanic area saw a fountain of hot water and steam ejected into the air at regular intervals. What did they see?

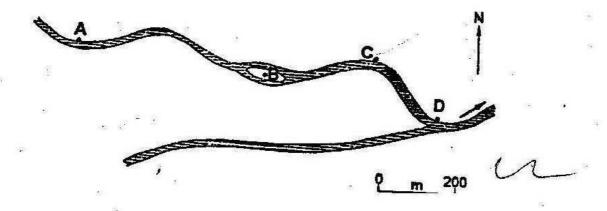
- A a geyser
- B a crater lake
- C an ash cone
- D a hot spring

During a period of generally calm, settled weather, a coastal area experiences a breeze blowing inland from the sea for several hours.



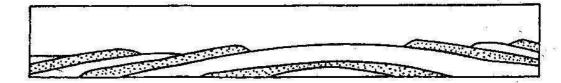
Which diagram A, B, C or D shows the conditions which cause the breeze?

17. The diagram shows a river flowing across the valley stage.



At which one of the positions marked A, B, C or D is a river cliff likely to develop?

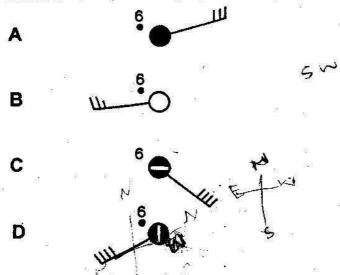
224E/1 N2000



The above cross-section shows

- A an eroded anticline.
- B a rejuvinated syncline.
- C a rift valley.
- D river terraces.
- 19. 'She wakened to hear the rain lashing against the windows. During the night the South West wind had strengthened to some 40 knots, the temperature had fallen to 6°C and the sky was almost covered.'

Which of the stations A, B, C or D represents the description?



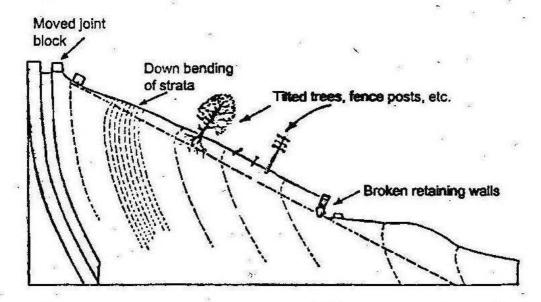
- 20. Dykes, sills and calderas are all features of
  - A flood plain erosion.
  - B land reclamation.
  - C volcanic activity.
  - D earth movements.
- 21. What instrument is used to measure the relative humidity of the air?
  - A wet and dry bulb thermometer
  - B rain gauge
  - C mercury barometer
  - D maximum and minimum thermometer

2244H N2000

# 22. The amount of tree-cover in savanna grasslands tends to increase towards the equatorial zones because of

- A increasing average monthly temperatures.
- B a shorter dry season.
- C a decrease in the number of herbivores.
- D decreasing annual rainfall.

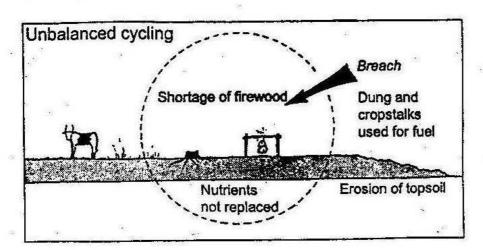
#### 23.



The situation shown in the diagram above is caused by

- A lava flow.
- B alluvial deposition.
- C soil creep.
- D wind erosion.

### 24. Study the diagram below.

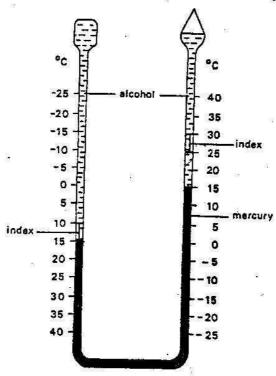


A solution to the problem of unbalanced nutrient cycling would be

- A afforestation.
- B contour ploughing.
- C gully filling.
- D deforestation.

2248/1 N2000

25. A student went to read the maximum-minimum thermometer at a school weather station and found it as shown in the diagram.

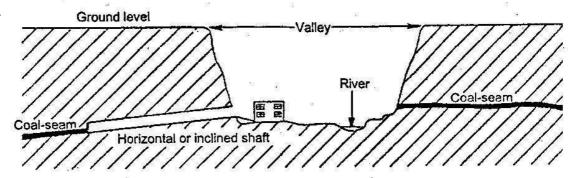


What was the mean (average) temperature for the station?

- A 10°C
- B 15°C~
- C 20°C
- D 25°C

**Economic Geography** 

26.



The type of mining shown in the diagram above is

- A adit.
- B alluvial panning.
- C opencast.
- D shaft.

2248/1 N2000

All the following raw materials required for the steel industry at Redcliff are locally available except

- A iron ore.
- B limestone.
- C manganese.
- D coking coal.

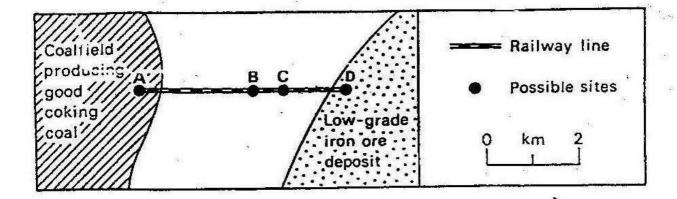
A general fall in prices of agricultural commodities on the world market would have the most effect on a

- A shifting cultivator.
- B plantation (estates) farmer.
- C peasant farmer.
- D nomadic herdsman.

Africa has developed less than 30% of her estimated hydro-electric power potential. This is because of

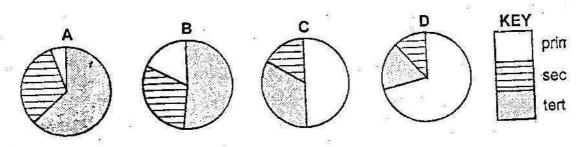
- A insufficient demand for electricity.
- B abundant reserves of coal.
- C the seasonal flow of many rivers.
- D lack of suitable dam sites.

The diagram shows four possible sites for a new steelworks. The production of steel at the new works requires twice as much iron ore as coal.



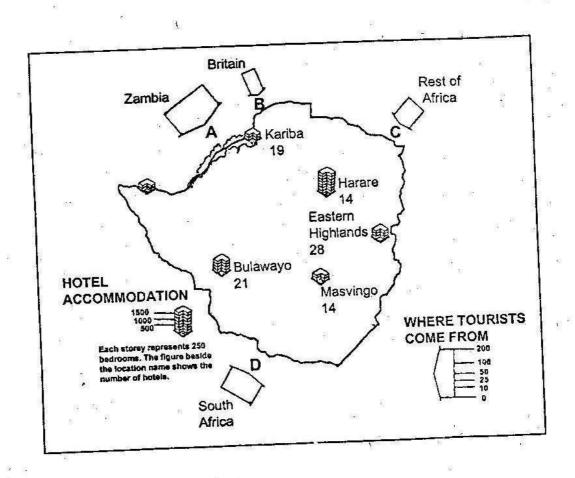
If the cost of transporting iron ore and coal is the same, at which site A, B, C or D will the new steelworks be built in order to maximise transport costs for the raw materials?

31. Study the pie-charts showing the proportions of primary, secondary tertiary employment in four countries.



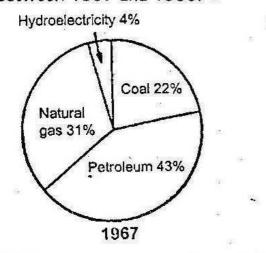
Which country A, B, C or D is the most developed?

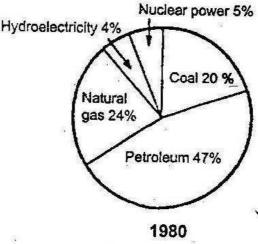
32. The map shows the numbers of tourists, from selected countries, who visited Zimbabwe recently.



Which source country A, B, C or D contributed 100 000 tourists?

Study the diagrams which show changes in energy sources in the U.S.A. between 1967 and 1980.





Which energy source showed the highest increase between 1967 and 1980?

- A natural gas
- B hydroelectricity
- C nuclear power
- D petroleum

#### Population, Settlement and Trade.

The number of people in an area divided by the size of the area is a measure of

- A overpopulation.
- B life expectancy.
- C population density.
- D birth rate.

The table shows the results of a survey carried out in a developing country to find out the reasons why heads of households were moving into the city.

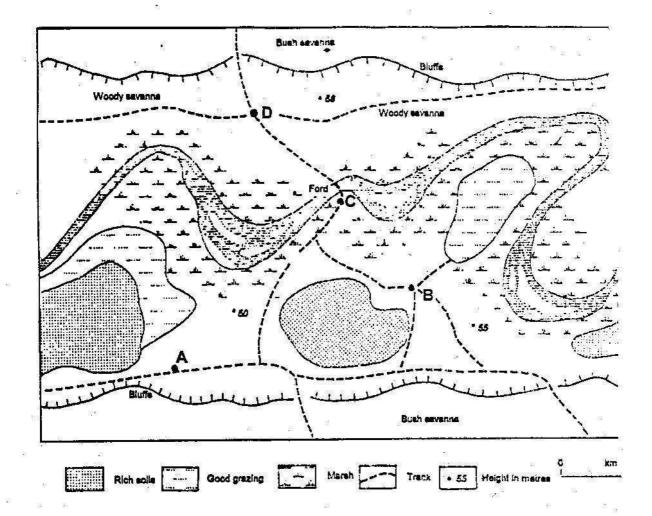
HEADS OF HOUSEHOLD %	REASON FOR MOVING INTO THE CITY
68	X
13	to start a business
12	to join a member of the family
4	for education
3	because of a family quarrel
100	

#### Reason X is to

- A find cheaper housing.
- B find entertainment.
- C be nearer to a hospital.
- D find paid employment.

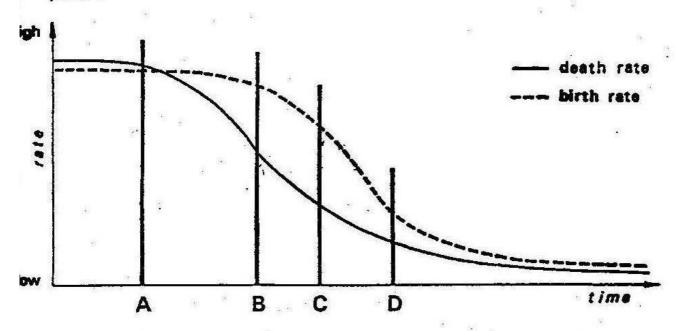
1481 N2500

- 36. Which one of the following provisions by a government would have the greatest impact in improving the quality of life in squatter settlements?
  - A a bus service into the city centre
  - B clean and safe water supply
  - C shops for renting
  - D recreational facilities
- 37. The map shows the location of four proposed sites for a new village.



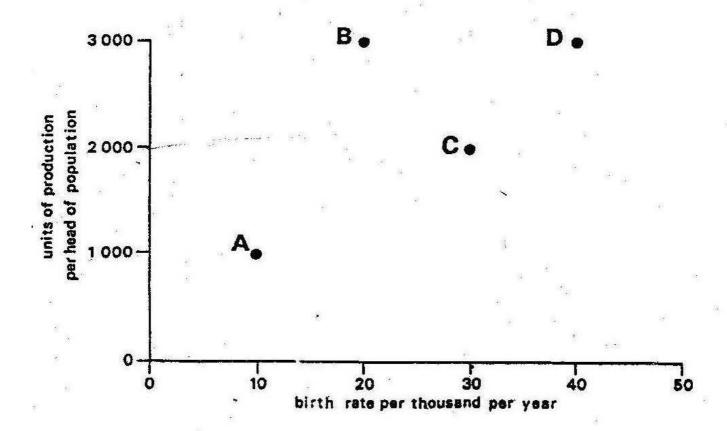
Which location A, B, C or D is the most suitable?

The graph shows changes in the birth and death rate in a country over a long period.



At which stage A, B, C or D was the total population growing fastest?

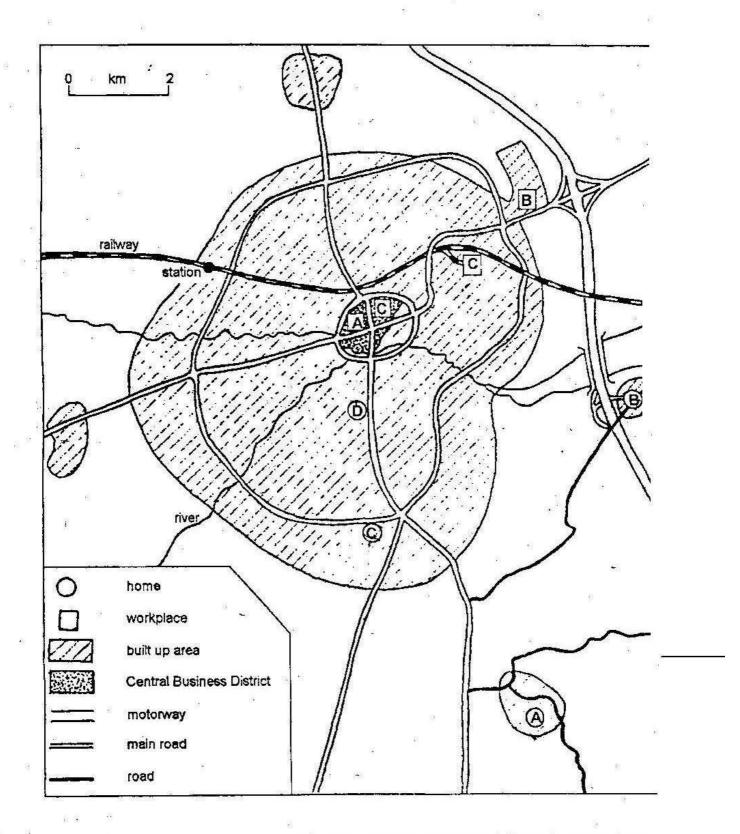
. The diagram shows the units of production per head of population and birth rates for four countries. The death rate is the same for all the countries.



Which country A, B, C or D is least likely to suffer from problems of over population?

[Turn o ler ....

40. The map shows four possible locations of Mrs Dube's home and workplace in a city.



Mrs Dube is the manageress of a department store and lives in a modern detached house with a large garden. Which letter A, B, C or D is most likely to represent both her workplace and home?

#### 2248/01

#### **POSSIBLE ANSWERS**

#### MAPWORK (1:50 000 CONCESSION)

1.

3.

5.

7.

9.

D

C

D

C

В

11. · A

2.

C

4.

B

6.

D

C

8.

10.

D

12. A

26.

27.

D

A

A

28. B

29.

30. D 31.

32. D 33. . C

#### PHYSICAL ENVIRONMENT

#### 13.

15.

17.

19.

21.

D

A

C

14.

B

16.

C ,

C

B

18.

20.

D

A

C

22.

24.

23.

25. C

#### POPULATION, SETTLEMENT AND TRADE

34.

C

35.

D

36.

В

37. B

38.

C

39.

B

40.

A

<sup>/</sup>SK RED-SPO1-2288-01 N00

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/2

PAPER 2

Monday

**30 OCTOBER 2000** 

Morning

2 hours 30 minutes

Additional materials: Answer paper

TIME 2 hours 30 minutes

#### INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer four questions. Each question carries 25 marks.

Answer one question from each of Sections A, B and C and one other question from any sections.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

#### INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

Insert 1 contains Photograph A for use with Question 3.

Insert 2 contains Photograph B for use with Question 4.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

This question paper consists of 12 printed pages and 2 inserts.

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Turn over

### Section A (Physical Environment)

Answer at least one question from this section.

- 1. (a) (i) Name the three classes of rocks.
  - (ii) With the aid of labelled diagrams, explain how the structure of rocks influences the formation of one of the following:

Castle kopjes Underground caves Trellis drainage

[1 .

(iii) What advice and information would you give to a council to develop an area that has experienced faulting?

[5]

(b) Fig. 1 below shows a landform found in hot deserts.

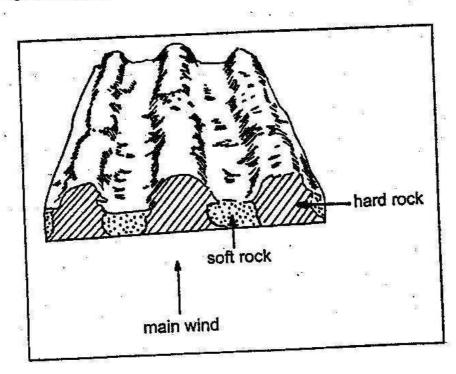


Fig. 1

(i) Describe how the landform is formed. [5]
 (ii) Outline the changes which are likely to occur to the landform over a long period of time. [2]
 (iii) Strong winds pose problems for people living in hot deserts. Explain the problems associated with these winds.

(a) Study Fig. 2 below which shows the hydrological cycle.

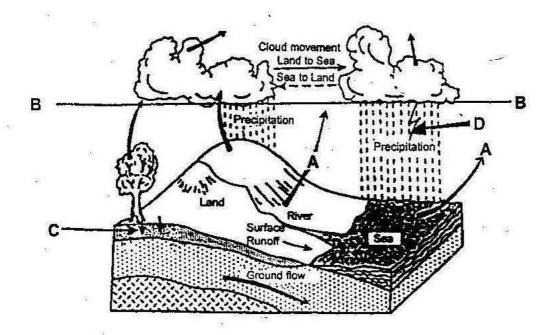


Fig. 2

- (i) Name the processes marked A, B and C and symbol D. [4]
- (ii) Explain how each of the processes marked A and B lead to the formation of rainfall. [6]
- (b) Suggest the benefits to people and the environment arising from cloud seeding and air pollution-control. [7]

(Turn over

(c) Study Fig. 3 showing pressure patterns over Africa in July.

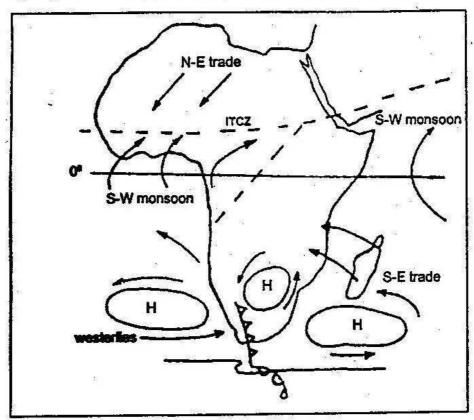
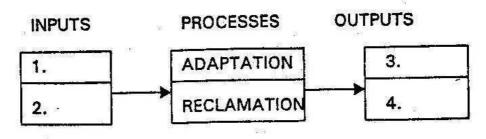


Fig. 3

- (i) Describe and explain the pressure patterns shown on Fig. 3.
- (ii) State two weather conditions associated with high pressure systems.
- 3. (a) Study Photograph A (Insert I) showing an environmental problem.
  - (i) Describe the scene in the photograph.
  - (ii) Explain the causes of the problem shown in photograph A.[5
  - (b) In many places in Africa, the conservation of the environment has involved the setting aside of land for wildlife management schemes.
    - (i) Using the diagram below, state the inputs and outputs of such schemes.



[4

(ii)	Explain how wildlife management improves the	
	conservation of the environment.	[4]

(iii) You are to give a speech to the Department of Natural Resources on the failure of many conservation programmes in the rural areas. Briefly describe the issues which you will raise in your speech. [7]

48 : N2600

### Section B (Economic Geography)

Answer at least one question from this section.

- 4. (a) Study Photograph B (Insert 2) showing a rural homestead.
  - (i) Describe the uses of resources shown in the photograph.

[5]

(ii) Explain the problems associated with the method of cooking shown.

[3]

(iii) What measures would you recommend to such communities to conserve energy resources?

[4]

(b) Study Fig. 4 which shows fishing grounds in South Africa.

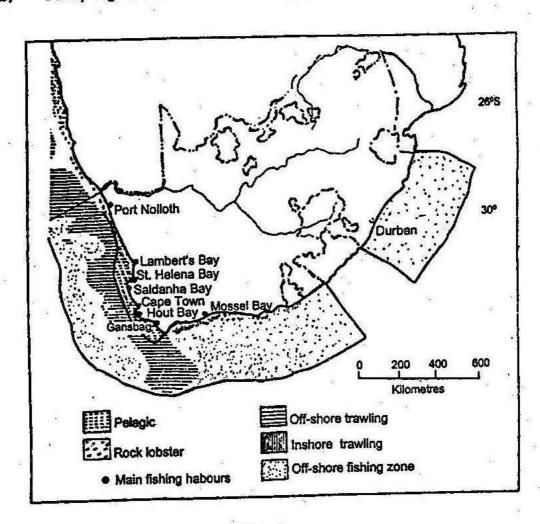


Fig. 4

(i) Describe and explain the distribution of fishing grounds shown.

[7]

(ii) Explain the advantages to South Africa of producing a wide variety of fish.

[6]

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/2

PAPER 2 INSERT

Monday

**30 OCTOBER 2000** 

Morning

2 hours 30 minutes

estructions to candidates.

This insert contains Photograph A for use with Question 3(a).

This insert consists of 2 printed pages.

ZIMSEC 2000 [Turn over



### ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/2

PAPER 2 INSERT

Monday

30 OCTOBER 2000

Morning

2 hours 30 minutes

structions to candidates.

is insert contains Photograph B for use with Question 4(a).

This insert consists of 2 printed pages.



2248/2 (Invert 2) (#7000)

(a) In a field study of a farm, a geography class obtained the following results on the natural conditions:

Soil	deep, sandy loams
рН	slightly acidic (6)
Rainfall	800mm, seasonal
Temperature	Summer 21°C, Winter 18°C
Vegetation cover	less than 30%
Pests and diseases	Insects, weeds, fungi

How would this information assist a farmer decide on

(i) the crops to grow,

[2]

(ii) farm inputs,

[4]

(iii) conservation measures?

[2]

(b) With reference to a named example in Africa, describe the advantages and disadvantages of pastoral nomadism.

[6]

(c) The table below gives statistics on maize production in Zimbabwe from 1992 to 1997.

1992 - 1993	12 600 tonnes
1993 - 1994	1 350 000 tonnes
1994 - 1995	1 171 000 tonnes
1995 - 1996	67 600 tonnes
1996 - 1997	932 000 tonnes

(Source: CSO 1997)

- (i) Describe the trends shown on the table and suggest their possible effects on food security in the country. [7]
- (ii) You are an Agritex Officer and you have submitted to the government a proposal to expand co-operative agriculture in the communal areas of Zimbabwe.

  Justify your proposal.

[4]

[5]

(ii) With reference to Fig. 5 below describe the process of oil refining shown.

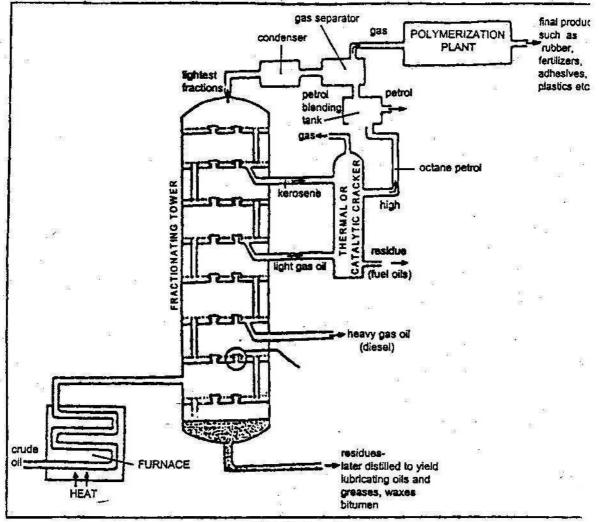


Fig. 5

(iii) Choose two by-products of crude oil and state two uses of each.

[2]

(b) Fig. 6 below shows three industries with close links to one another.

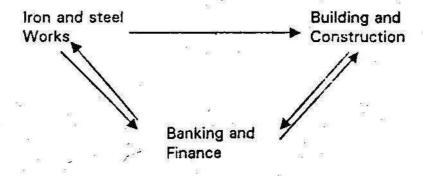


Fig. 6

(i) Describe and explain the relationships between the three industries.

[5]

(ii) Explain the uses of raw materials required in the production of iron and steel.

[4]

(c) State and explain the policies which you would recommend in establishing new industries and expanding existing ones in your country.

[7]

#### Section C (Population, Settlement and Trade)

Answer at least one question from this section.

(a) Fig. 7 shows the functions of a multi-storey building in the Central Business District (CBD) of a city.

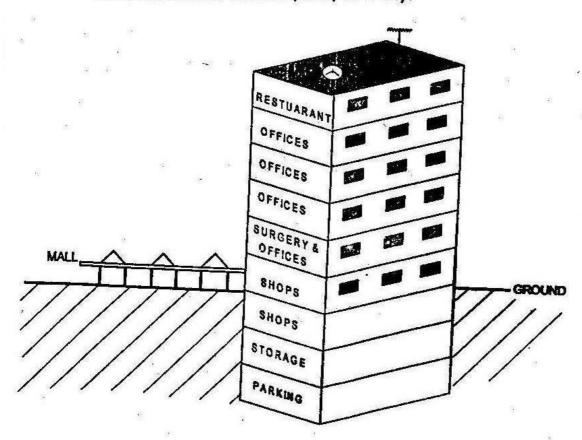


Fig. 7

(i) Describe and explain the functions shown.

[6]

(ii) A town council decides to construct more roads and clinics while the residents want more houses. Put forward arguments in support of both the council and the residents.

[7]

(b) Fig. 8 below shows part of Harare's "sphere of influence" or 'urban field'.

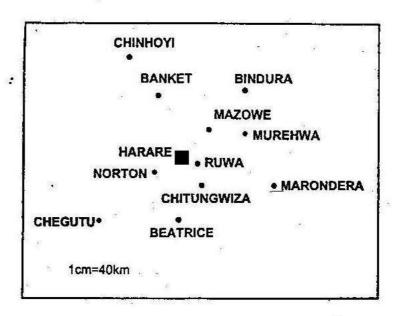


Fig. 8

- (i) Describe Harare's "sphere of influence".
- (ii) Describe the benefits and problems arising from Harare's "sphere of influence".
- (iii) With reference to a town or city you have studied in Zimbabwe, describe the differences between High density and Low density residential areas.
- 8. (a) The table below gives information on the population of two countries A and B.

Population characteristics	Country A	Country B
Population growth	0,1%	3%
Infant mortality	12 per 1000	66 per 1000
Active population	57 million	7 million
Unemployment	11%	40%
Economic growth	3%	1%
Life expectancy	75 years	48 years

(i)	State which country represents developed countries	
	and give reasons for your answer.	

(ii) Using the table only, explain the causes of unemployment for both countries.

[4]

[7]

(b) Explain why there are low population densities in the lowveld areas of Zimbabwe.

[7]

(c) Explain the relationship between rising poverty and declining resources in Southern Africa. Make recommendations to solve these problems.

[7]

9. (a) Fig. 9 shows total populations and the Gross Domestic Products (GDPs) for the SADC countries.

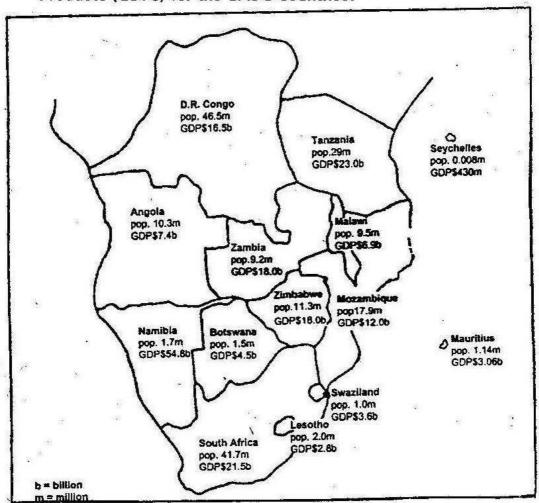


Fig. 9

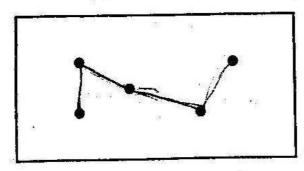
- (i) What does the abbreviation SADC stand for? [1]
- (ii) Explain how the variations in GDP may promote or hinder trade within the region. [6]
- (iii) An expert has recommended that the SADC must increase its trade links with the European Union (E.U.). In your opinion, what are the merits and demerits of such a recommendation? [7]

Tum over

(Iv) With reference to Zimbabwe, explain the measures the country has put in place to boost international trade.



(b) Points in the diagram below are to be connected by transport routes.



- (i) On your answer paper draw and label a topological map with a beta index of 1.6 (beta index =  $\frac{E}{N}$ ) [5]
- (II) State two advantages of topological maps. [2]

2

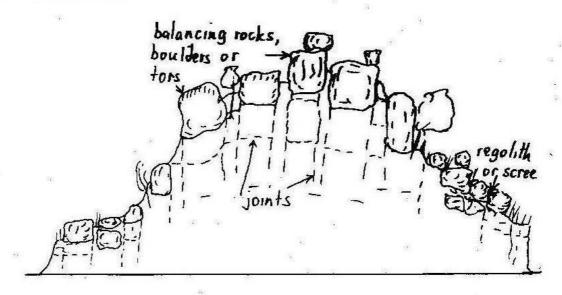
#### 248/02

#### **IOSSIBLE ANSWERS**

(a) (i) Sedimentary, metamorphic and igneous 1 mark each

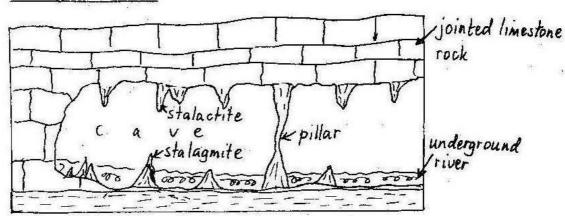
3 marks

#### (ii) Castle kopjes



- well jointed granite rock
- rectangular/block jointing pattern
- selective deep chemical weathering along the joints
- stripping of regolith to expose inselberg

### or <u>Underground caves</u>

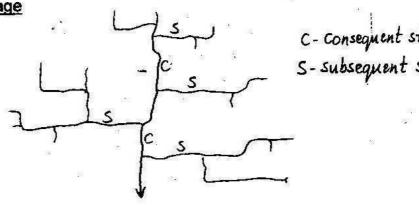


water containing calcium bicarbonate drips from the cave roof. Whe the water evaporates it leave behind calcium carbonate in the form of

stalactites, stalagmites and pillars.

- well jointed limestone rock
- numerous bedding surfaces
- solution along joints
- widening of joints to form caves

or Trellis drainage



- rectangular / grid faulting
- rivers exploit fault lines
- rapid headward erosion
- alternate bands of hard and soft rock
- folding may also result in trellis drainage

#### 1 mark each

#### Reserve 2 marks for diagram

6 marks

- (iii) development of tourism, HEP, water sport/ recreation at water falls
  - mining can be promoted or becomes difficult
  - possibility of earth quakes; reinforcing of buildings
  - and use of light materials for building
  - problems of setting up communication networks due to rugged terrain
  - use of flexible piping
  - farming on valley floors
  - tea, coffee, timber on highlands

#### 1 mark each

(Reference to earthquakes - maximum of 2 marks)

5 marks {14

- (b) (i) Heterogeneous rock/vertical bands of hard and soft rocks.
  - Selective weathering and erosion.
  - Wind abrasion wears away weaker rock at a faster rate.

#### (c) (i) Description

- high pressure over the Atlantic and Indian oceans and Southern Africa
- cold front over the western part of South Africa
- the I.T.C.Z. (Zonal low pressure system) lies to the north of the Equator.

#### Reasons

- movement of thermal equator/overhead sun
- northern hemisphere summer and southern hemisphere winter
   1 mark each

6 marks

#### (Reserve 2 marks for either description/reason.)

- (ii) calm/settled/ stable weather
  - clear skies/sunny weather
  - fair weather cumulus clouds
  - subsidence and out flow of air/ divergence
  - surface temperature inversion
  - radiation fog and mist
  - frost, dew etc.
  - dry whether
  - Low/ cool temperature
     1 Mark each

2 marks 8 [25]

- 3. (a) (i) erosion/gullying, land degradation
  - undercutting at the base of a river cliff
  - erosion of river bank
  - mechanical collapse/slumping
  - siltation
  - dry river bed
  - a tree that has collapsed into the river
  - bare ground
  - sparse grass cover
  - clumps of soil
  - exposed roots
  - sand bank
  - some tree branches have been cut off, etc.

5 marks by 1/2

	- Formation of a ridge and furrow landscape.	9100	///ge
	1 mark each	5 marks	1
(ii)	<ul> <li>ridges are reduced in size and height</li> </ul>	•	
	- ridges disappear		
	extensive erosion plain or peneplain is formed		38
	- rock debris on surface	(Mariá	
	- widening of furrows and narrowing of ridges		
	1 mark each	2 marks	<b>3</b> 9
(iii)	- shifting sand dunes bury settlements, roads, water	5	
//	sources and farmland	8	
10.	- dust storms reduce visibility casing accidents and d	iseases	
	- sand blasting destroys crops, leads to corrasion, inj		e if
255	difficult to travel	ary and make	
		85	
	- wind erosion opens oases and creates badlands.	4 marks	
	1 mark each	4 mains	"
246	I		Ľ
(i)	A - Evaporation		
	B - Condensation		
	C - Infiltration/seepage/sinking		
	D - Lightning		
	1 mark each	4 marks	
(ii)	evaporation increases water vapour in the	125	59
800 300	atmosphere		
	- when moist air rises it expands	2866	
	- adiabatic cooling of air to dew point	380	
(i)#2	- air becomes saturated		
	- presence of hygroscopic condensation nuclei or car	bon particles	he
	condensation and cloud formation		
7.62%	growth of rain drops and falling as rain.	ESH	
36	1 mark each	6 marks	
	That out		
	increased water supply		
\$27.6 2003	more vegetation cover	<b>8</b>	
) <u></u>	more pasture		
-	reduced soil erosion due to increased vegetation cover	额	
820	cleaner air		
-	healthier people/Reduced respiratory diseases and skin ca	ancer:	380
( <del>-</del>		anco	
3 <del>5</del> 31	conservation of biodiversity		
) <del>) [</del> ]	more crop yields	*	308
	more food		28
65=81	reduced dirt and dust, etc.		
) 📆	reduced risk of hailstorms		
8 <del>2</del> 4 (	less acid rain		
37 <del>5</del> 1	reduced greenhouse effect	11-16 manual 180	
	1 mark each	7 marks	

(a)

(b)

						35	
	(ii)	- soils whi	ch are easily erode	ed be	** <sub>7/8</sub>		
	7117		egetation cover			16	*8
		- flash floo			8-		
		- deforesta	**				
		- overgraz			3	ė.	
	217	etream h	ank cultivation	8 =			
		- over pop	7.7.11	8	8)		
			ning, etc.				
5		1 mark e			51	marks	10
					**		
(b)	(i)	Inputs	Outputs	ġ.	4		*
	1.7					·	
	4	fence	skins			Q	
		-	trophies		<b>9</b>		
		game	meat				
	4	land	curios	-90	iq.		
	•	capital	employment	4			
	67	vegetation	foreign currer	ncy, etc.	162		
		water, etc.	. St	18.0			
1		1 mark each	ii.		4	marks	
			*				
	(ii)		educes pressure o			*	
	4.2	pasture/	vegetation regene	rates			
		<ul> <li>relocation</li> </ul>	on of game reduce	s pressure o	on Rano	72	88
			penerated is plougl	ned Dack w			
		protection	on of wildlife				
		<ul> <li>selective</li> </ul>	e grazing and brow	Ising by the	e Ormeres R		
		species	reduces the dange	er of overgr	azing		
		- tree pla	nting restores vege	station cove	er, etc.	oc water	SIMPLY
		- building	of dams and sinki	ng or borem	oles improv	CO HOLO	Juppiy.
		# N			4	marks	
3	(****	1 mark					
	(iii)	- corrupti					
			agement capital/ poverty	<b>6</b>	100		
- 66		- poor pla					
			knowledge/illiterac	vlignorance	13		
		- drought		<i>y</i> ,,g.,o.a	T/2		
		- poachir				*	
		- lack of	A REPORT OF THE PROPERTY OF TH		85		
			developed transpo	rt networks/			
		remote			14.		
			l interference				y 6
		700000000000000000000000000000000000000	tion pressure		7		A.
8			s only source of er	nerav			15
Ø.		1 mark		·-·31	7	marks	[25]
		1 HIGHN	Vacci				

building, fuel, fencing, cooking sticks, axe handle, (i) trees stools. thatching grass drums, wire, axe iron and steel clothing cotton plastering, decoration, bricks. clay wash basin plastics plates tin cooking food, beer, washing water 5 marks 1 mark each deforestation (ii) open fires waste wood fuel/inefficient use of energy dangerous/accidents. unhygienic/diseases. food poisoning pollution 3 marks 1 mark each use of bricks, corrugated iron sheets, and asbestos. (iii) use of electricity cow dung and crop residue

use of biogas, solar energy, paraffin.

tsotso stoves

earth stoves/fire places

reforestation

afforestation

Education

1 Mark each

12

4 marks

#### Distribution of fisheries (i) (b)

pelagic fishing areas near the west coast

off-shore fishing more extensive on the

large areas of off-shore trawling on the western side

small areas of rock lobsters around Durban and the West Coast

#### Reasons

- extensive shallow continental shelf on the west-breeding grounds for pelagic fish
- cold ocean current, mixing of warm and cold water on the west and upwelling of water → plenty of plankton
- many fishing ports/habours on west coast
   1 mark each

#### (Reserve 3 marks for either distribution/reasons)

7 marks

- (ii) canned and frozen fish, smoked and dried fish
  - fish meal/ stock feed
  - extraction of oils/medicines
  - fertilizer
  - employment
  - foreign currency, etc.
  - food, protein
  - raw materials
  - recreation
     1 mark each

6 marks 13 [25]

- (a) (i) sandy loam soils and moderate rainfall → tobacco, groundnuts, maize and sunflower, cotton, soya beans 2 marks
   1 mark each
  - (ii) acidic soils lime
    - sandy soils fertilizers, manure
    - seasonal rainfall supplementary irrigation
    - insects, weeds, fungi pesticides, insecticides, weed killers, etc.
    - labour
    - capital to buy inputs
    - temperature greenhouses

4 marks

- (iii) cover crops
  - controlled grazing
  - contour ridges
  - planting of trees
  - paddocking
  - construction of dams

2 marks 8

#### 1 mark

#### Advantages

- movement ensures that the livestock gets water and pasture
- movement reduces the problems of tsetse flies (Fulani)
- no limits on the number of livestock

#### Disadvantages

- land conflicts
- difficult to provide services
- disease control is difficult
- overstocking -- overgrazing
- poor quality livestock
- severe erosion around water holes
- frequent loss of large number of livestock due to disease and drought
- areas remain underdeveloped.

6 marks

desertification

1 mark each

(Reserve 2 marks for either advantages or disadvantages)

(c) Trends

> 1993 - 4 sharp increase

1994 - 5 decrease

1995 - 6 sharp drop

1995 - 7 increase

#### **Effects**

1993 - 94 food surplus

more exports

1994 - 95 deficits → drought relief,

1995 - 96 importation of food, starvation, etc. Food aid.

1996 - 97 reduced food imports

1 mark each 7 marks

(Reserve 3 marks for either trends or effects)

					25
		7.5	- shared labour and knowledge		
			<ul> <li>group purchasing of inputs and mark</li> </ul>	eting	
100			<ul> <li>access to credit facilities/bank loans</li> </ul>		
			- shared risks	4 ma	arks 11
			1 mark each	2000-000-000-000-000-000-000-000-000-00	[25]
		*			¥
c	/al	(1)	Initial Processing or adding value to a		*
6.	(a)	(i)	Initial Processing or adding value to a		
			product or mineral concentration.		
	(10)	58			STATE OF THE STATE
		\$2.18		2 m	arks
3		(ii)	- heating	9	
	194	88.0 St	<ul> <li>vapour rises into fractional tower</li> </ul>	64	
			- separation of various hydrocarbon fra	actions	
		56	- heavy gas oils are removed		e.
	24.		- light oils flow into thermal cracker		
	100				30 20
		-,6	- blending of petrol		2
			- separation of gas from petrol	70	
			<ul> <li>polymerization</li> </ul>		
		42	<ul> <li>residue removed from base</li> </ul>		
/3					
	12		1 mark each	5 m	arks
	0.78				
		(iii)	bitumen - road construction		č
		1,	- sealing roofs		
			- sealing roots		<b>₩</b>
		67	ala ami anta		
			chemicals - asprin		
	200		- perfumes	2 m	arks 9
32			*		*
		19	Mark by ½ marks		48
	(b)	(i)	<ul> <li>Iron and steel industries supply build</li> </ul>	ling and	2
	\$5 - 1 B		construction with raw materials for re	inforcement.	90,
			- Building and construction puts up bu		
			banking and finance for investment a		
			- Banking and finance supplies capital	200	•
					sotmant
			iron and steel and building and cons		Suren.
		(4)	<ul> <li>Money from both iron and steel and I</li> </ul>		
			construction goes to banking and fin-	ance for securi	ty and investment.
			30 W	60 7000	Q 895 97
			1 mark each (reserve 2 either for des	scription or exp	lanation)
	2			5 m	arks
			W.	(8)	*
	17	(iii)	- iron ore - pig iron		
			- limestone - flux		₩ 26
	(8)	16	- coke - smelting		5R
			<b>Y</b>	*	
	25.	3300	- water - cooling		28 19-
			**	\$\$	20

(ii)

employment

#### 1 mark each

- (c) Decentralization equitable development in all areas.
  - -: Privatisation encourages efficiency.
  - Indigenisation empowers locals.
  - Import substitution saves forex.
  - High tariffs on imported goods protection of local industry.
  - E.P.Zs.- increase exports and generate employment.
  - Tax rebates- encourages investment.
  - Lower taxes- encourages investment.
  - Encourage technology which is sustainable and fully utilises the existing skills of the local people
  - Labour intensive industries create employment
  - Develop industries which use local rather than imported raw materials e.g. agro - based to save forex.
  - smart partnerships encourage foreign investment.

[25]

1 mark each

(Reserve 3 marks for either policies or explanations).

7. (a) (i) - restaurant on top floor - good view and less noise

and congestion

- shops on ground floor for easy accessibility and need for street frontage for display of goods, floor space more expensive
- offices above ground floor → cheaper floor space,
   no need for street frontage, less noise and congestion
- basement shops, storage and parking → cheaper floor space
- mall for relaxation and easy access to shops
- roof communication equipment no obstacles to disturb waves.

1 mark each

6 marks

(Reserve 2 marks for either description or explanation).

#### (ii) Council

- improve traffic flow and reduce accidents
- reduce congestion
- employment creation
- improve health and welfare of people

attract investors, etc.
 increase accessibility, etc.

### Residents

- shortage of housing
- overcrowding
- diseases
- squatters
- crime
- prostitution, etc.

1 mark each.

Reserve 3 for either council or residents 7 marks

13

(b) (i) - surrounded by many towns

several satellite/domitory settlements/towns

extends up to 120km

largely agricultural and mining towns and growth points.

extends to the N/W to Chinhoyi, NE to Bindura,

East to Marondera, South to Beatrice and SW to Chegutu.

1 mark each 3 marks

### (ii) Benefits

- labour
- raw materials
- large potential market
- supply of fresh farm produce
- entertainment
- employment
- housing
- decentralisation of industry

### **Problems**

- traffic congestion
- unemployment
- crime and all forms of antisocial behaviour
- pollution
- primacy/ slow growth in smaller towns

1 mark each
Reserve 2 marks for benefits/problems.
5 marks

### (iii) High density

- many small houses per unit area
- uniform designs
- fewer open spaces/recreational areas
- narrow streets
- tower lights
- many beer outlets, etc.

### Low density

- large houses
- large residential stands
- varied designs
- large open spaces
- wider streets
- street lights
- more recreational facilities e.g. golf courses, tennis courts, swimming pools, etc.

4 marks 12 [25]

1 mark each per difference.

### B. (a) (i) A

- low population growth rate
- low infant mortality rate
- large active population
- high life expectancy at birth
- higher rate of economic growth
- low unemployment

1 mark each Reserve 1 for name

7 marks

- (ii) rapid population growth and slow economic growth (B)
  - large potential labour force for both A and B
  - slow population growth → unemployment for certain classes of labour (A)

1 mark each 4 marks

- (b) remoteness
  - low rainfall
  - fewer mineral resources
  - low altitude and high temperatures
  - pests and diseases
  - infertile şandy soils (Hwange area)

- state lands (forests)
- national parks and wildlife areas
- extensive farming types (ranching), etc.
  1 mark each

7

### (c) Relationships

- rapid population growth→ rapid exploitation and depletion of resources→ deforestation, erosion, siltation, desertification, etc.
- shortage of water → unhygienic conditions → diseases
- lack of cattle → shortage of drought power and manure
- shortage of wood fuel → negative impact on food supply and preparation
- over fishing → reduced food
- poarching --> deception of wild- life.

### Solutions

- birth reduction measures
- resettlement
- piped water schemes
- fish farming
- cattle restocking programmes
- use of alternative fuels, afforestation, reforestation
- wild- life conservation

1 mark Reserve 3 marks for relationships or solutions)

7 marks

[25]

### 9. (a) (i) Southern Africa Development Community

1 mark each

1 mark

### (ii) Promote

- wealth from richer countries can be used to assist the poorer countries
- diffusion of technology
- movement of goods and skills
- large population gives rise to a large regional market

### Hinder

- trade imbalances
- monopolistic tendencies
- protectionism
- some countries are poor
- different tarrif rates

1 mark each. Reserve 2 for either promote or hinder.

6 marks

### (iii) Advantages

- forex
- aid
- technology
- skills
- preferential markets

### Disadvantages

- quota system
- price control
- open market
- destabilization of governments

1 mark each. Reserve 3 marks for A/D.

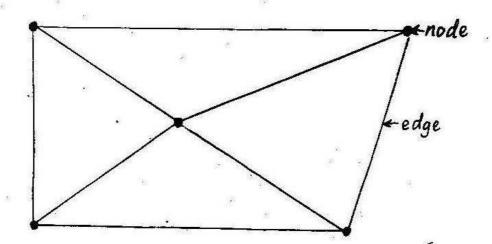
7 marks

- (iv) trade fairs/exports
  - use of the internet to advertise goods
  - setting up investment promotion centres
  - South-South Co-operation
  - E.P.Z.
  - export of labour
  - participation in foreign trade expos
  - joining trading groups
  - etablishing/opening trade missions in other countries, etc.

1 mark each

4 marks

(b)



1/2 mark for each line

½ mark for node and ½ mark for edge

5 marks

easy to construct

easy to process quick visual impression of connectivity

1 mark each 2 marks [25]

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/1

PAPER 1 Multiple Choice

Wednesday

20 JUNE 2001

Afternoon

1 hour 15 minutes

1:50 000 Survey Map is enclosed with this question paper Additional materials: Multiple choice answer sheet Soft clean eraser Soft pencil (type B or HB is recommended)

00530

TIME

1 hour 15 minutes

### INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so by the invigilator.

Write your name, Centre number and candidate number on the answer sheet in the spaces provided unless this has already been done for you.

There are forty questions in this paper. Answer all questions. For each question there are four possible answers, A, B, C and D. Choose the one you consider correct and record your choice in soft pencil on the separate answer sheet.

Read very carefully the instructions on the answer sheet.

### INFORMATION FOR CANDIDATES

Each correct answer will score one mark.

A mark will not be deducted for a wrong answer.

Any rough working should be done in this booklet.

This question paper consists of 20 printed pages and a survey map.

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[Turn over ]

### Mapwork

Questions 1 to 12 refer to the 1:50 000 map extract of Mbalabala (Zimbabwe).

- 1. In which grid square would you find a dip tank, cultivation and a prospecting trench?
  - A. 2133
  - **B**. 2136
  - C. 1940
  - D. 2141
- 2. What map evidence shows that there is mining in grid square 1838?
  - A. Mine dump
  - B. Quarry
  - C. Prospecting trench
  - D. Embankment
- 3. What human feature is found at grid point 119 373?
  - A. Staff quarters
  - B. Rifle range
  - C. St. Stephens College
  - D. Shaw Barracks
- 4. The length of Inyankuni dam wall is
  - A. 200 metres.
  - **B.** 250 metres.
  - **C.** 300 metres.
  - D. 400 metres.
- 5. What is the grid-bearing of the quarry (134 392) from the summit of Tsvakambeva kopie (104 338)?
  - A. 28°
  - B. 152°
  - C. 208°
  - D. 332°
- 6. In which grid square does the wide tarred road from Esigodini to Mbalabala pass through a wind gap?
  - A. 0941
  - **B.** 1041
  - C. 1140
  - D. 1234

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/1

PAPER 1

Wednesday 20 JUNE 2001

Afternoon

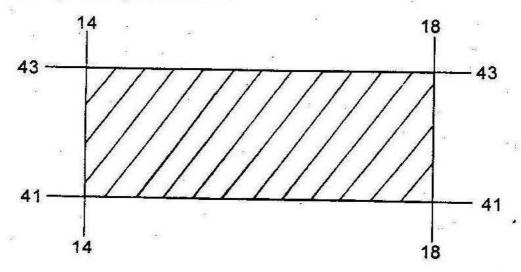
1 hour 15 minutes

# **ERRATUM NOTICE**

### Question 1:

To read as "... would you find a dip tank, cultivation and dams?" instead of "... would you find a dip tank, cultivation and a prospecting trench?"

7. Study the map area shown.



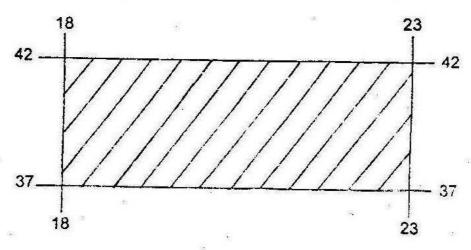
What is the general direction of flow of Umzingwani river in the area shown?

- A. North-East to South-West
- B. South-East to North-West
- C. North to South
- D. West to East

8. What types of vegetation would a driver observe on the northern side of the road as he drives along the wide tarred road from Mbalabala to the Umzingwani river bridge (2237)?

- A. Sparse bush, medium bush, sparse bush.
- B. Sparse bush all the way.
- C. Medium bush, sparse bush, medium bush.
- D. Dense bush all the way.

9. Study the map area shown.

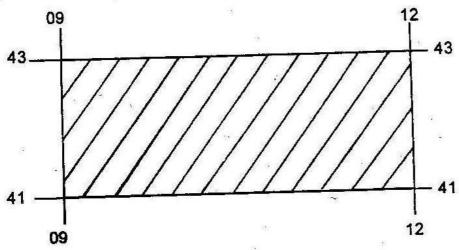


According to map evidence, what is the main activity in the shaded area?

- A. Cultivation
- B. Fishing
- C. Plantation
- D. Mining

[Turn over

10. The shaded area shows part of the map extract.



The settlement pattern in the area shown above is

- A. haphazard.
- B. nucleated.
- C. radial.
- D. linear.

11. Which grid square has a dendritic drainage pattern?

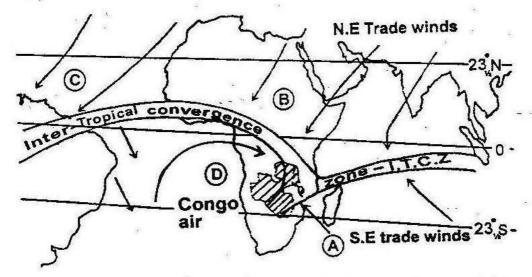
- A. 1747
- B. 1433
- C. 1439
- D. 0941

12. The Umzingwani river is not suitable for navigation because of the presence of

- A. dams.
- B. islands.
- C. meanders.
- D. rapids.

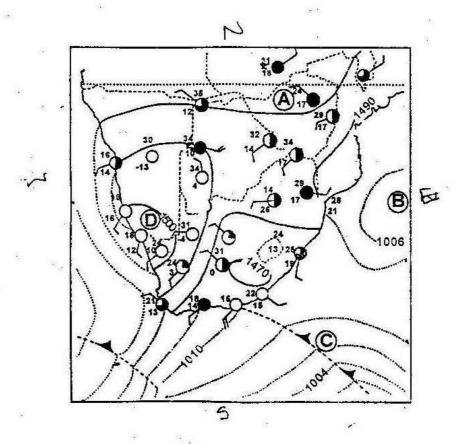
### **Physical Environment**

13. Study the wind and pressure pattern below.



Which air mass A, B, C or D brings dry conditions to the area it blows to?

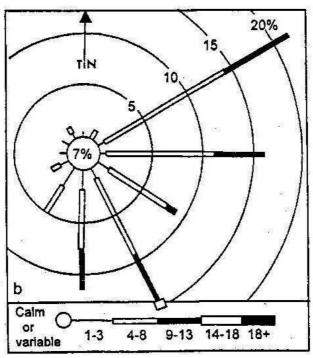
.14. The map shows weather conditions over Southern Africa on a particular day.



Which area A, B, C or D was experiencing anticyclonic conditions on that day?

[Turn over

15. The diagram shows the direction and force of winds for station X for a period of one month.



The prevailing wind direction for the station over the period was

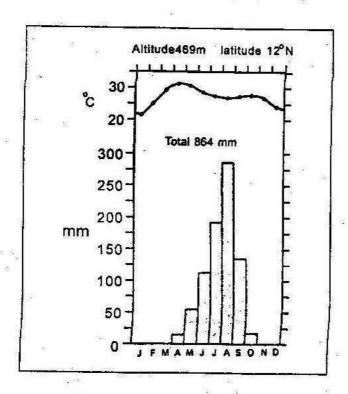
- A. Easterly.
- B. North-Easterly.
- C. South-Westerly.
- D. North-Westerly.

16. Study the weather records kept at a school over a period of four days.

DAY	DRY BULB	WET BULB	BAROMETER (mb')	RAIN	CLOUD CQVER	
Α.	19,5	16,5	1005	,		
В. 19,4		17,0	1002		•	
C.	19,0	18,5	1000	•	•	
D	19,5	17,0	1003	,	•	

On which day A, B, C or D was the highest rainfall experienced?

17. Study the rainfall and temperature graphs below.

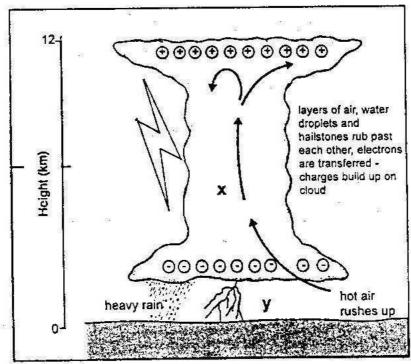


The climatic region represented by the graphs is

- A. Equatorial.
- B. Hot Desert.
- C. Hot Monsoon.
  - D. Savanna.

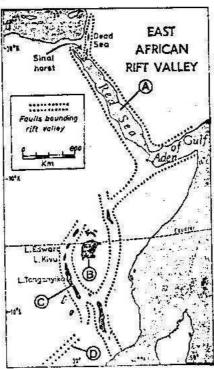
[Turn over

18. The diagram shows a weather phenomenon associated with a thunderstorm.



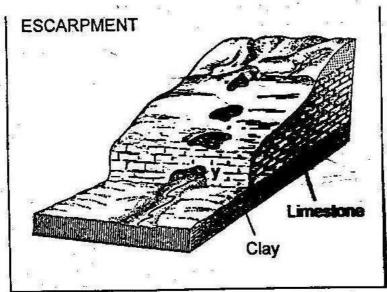
The weather conditions likely to be experienced at X and Y respectively are

- A. hail and mist.
- B. lightning and fog.
- C. mist and thunder.
- D. hail and lightning.
- 19. The map shows the East African rift valley formed by a combination of tensional and compressional forces.



Which feature A, B, C or D is due to compressional forces resulting in downwarping?

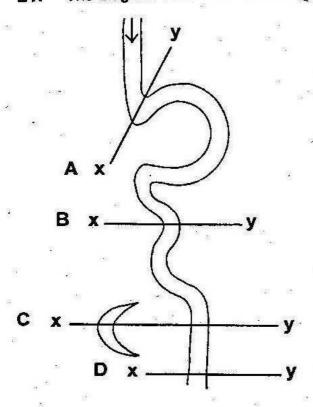
## 20. Study the diagram below.



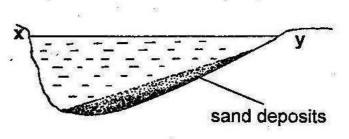
The process leading to the disappearance of the river between points X and Y is

- A. carbonation.
- B. hydration.
- C. infiltration.
- D. oxidation.

## 21. The diagram shows a river valley.



### CROSS-SECTION

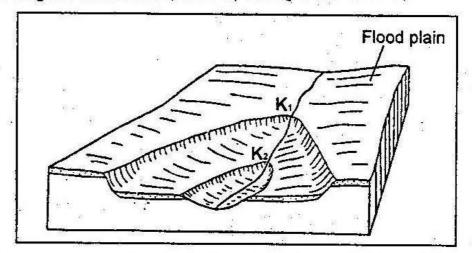


Which point A, B, C or D is represented by the cross-section shown?

2248/1 J2001

[Turn over

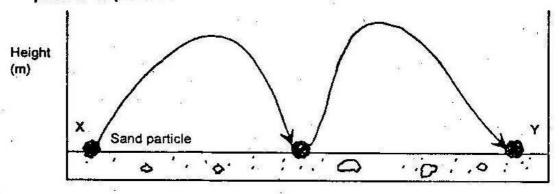
22. The diagram shows knickpoints  $K_1$  and  $K_2$  in a river valley.



Which process resulted in the formation of these knickpoints?

- A. Braiding
- B. Flooding
- C. Rejuvenation
- D. Terracing

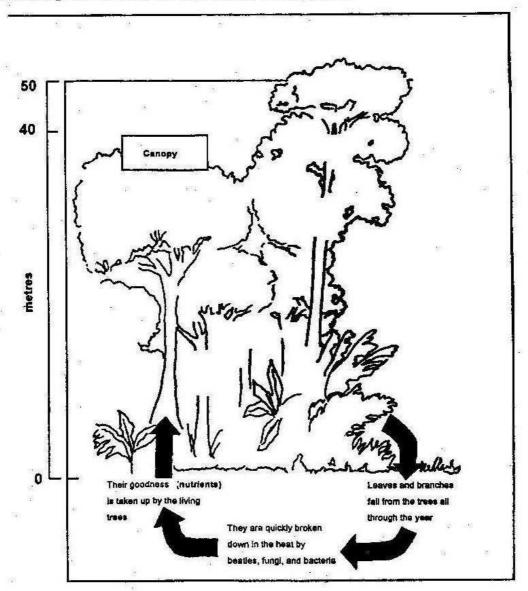
23. The graph shows the movement, in deserts, of the same sand particle from point X to point Y.



This type of movement is called

- A. siltation.
- B. suspension.
- C. saltation.
- D. surface creep.

### 24. The diagram shows an equatorial ecosystem.



The main activity disrupting the nutrient cycle shown is

- A. unsustainable safari hunting.
- B. depopulation due to diseases.
- C. excessive logging by companies.
- D. introduction of artificial fertilizers.

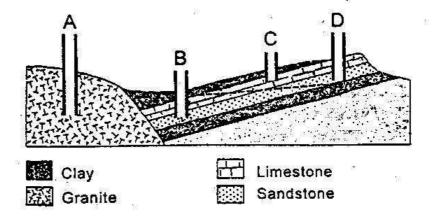
# 25. Vegetation zones resulting from increasing altitude are broadly similar to those of

- A. increasing rainfall.
- B. reduced temperature.
- C. changes in soil depth.
- D. increasing latitude.

2248/1 J2001

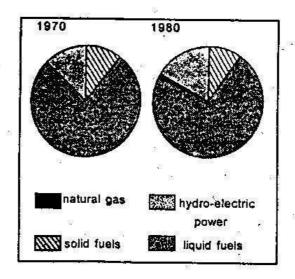
### **Economic Geography**

26. The diagram shows a series of wells harvesting underground water for a local community.



Which well A, B, C or D would provide a more permanent source of water?

27. The pie charts show the total consumption of energy for a country in 1970 and 1980.

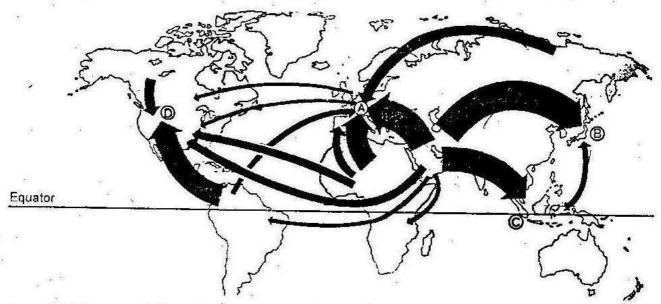


Which of the following energy types experienced the greatest increase in consumption?

- A. Solid fuels
- B. Liquid fuels
- C. Natural gas
- D. Hydro-Electric Power

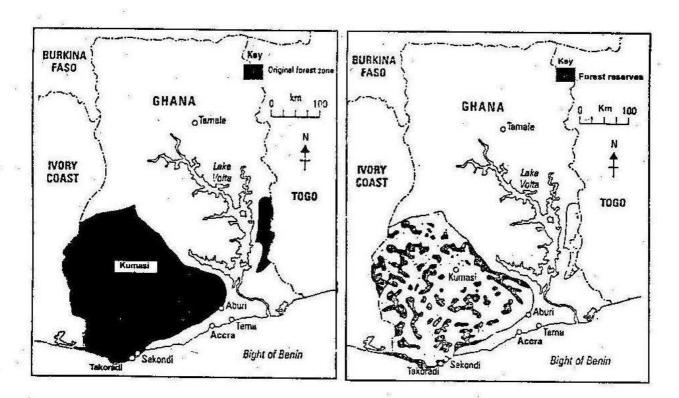
2246/1 J2001

28. The map below shows the movement of oil in the world in 1993.



Thickness of flow lines is proportionate to percentages of total flow. Which one of areas A, B, C or D received the largest volume of oil?

29. The maps show Ghana's original forest zone and the remaining forest reserves.

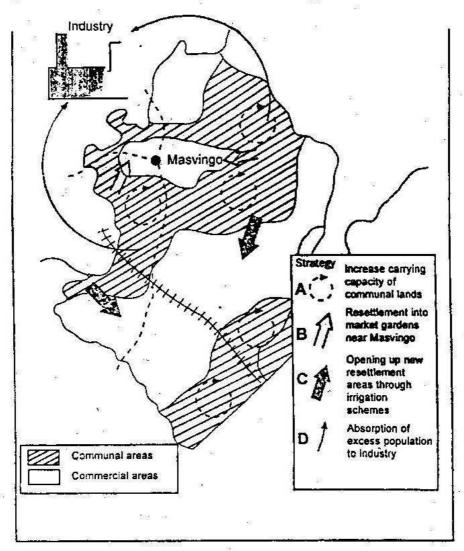


What can be done to save Ghana's dwindling forests?

- A. Grow plantation crops.
- B. Use substitutes for wood.
- C. Increase the prices for timber.
- D. Irrigate the forests.

Turn over

30. The map shows development strategies to improve productivity and living standards in communal areas in Zimbabwe.



Which one of the strategies A, B, C or D has the greatest potential to improve agricultural production on a more permanent basis in communal areas?

- 31. An agricultural development strategy involving the production of high yielding varieties of food crops and the application and use of fertilizers, insecticides, implements and water control is
  - A. permaculture.
  - B. green revolution.
  - C. shifting cultivation.
  - D. transhumance.
- 32. Industries which produce bulky items on manufacture are best located near
  - A. the market.
  - B. labour supplies.
  - C. raw materials.
  - D. power supplies.

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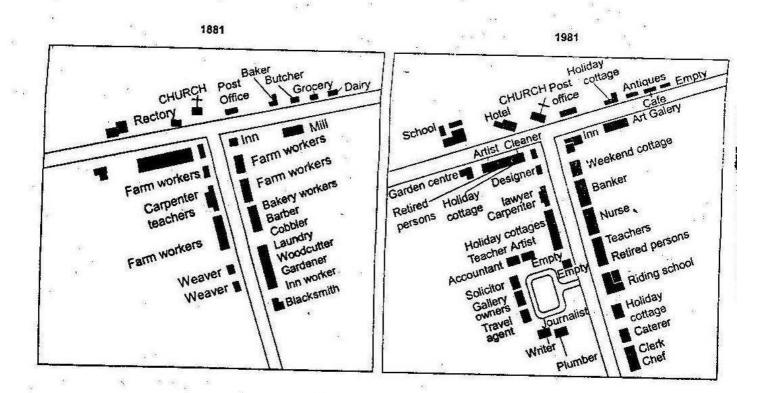
33. The table below shows the percentage of holiday and business trips undertaken by members of various social groups in a country.

Social Group		HOI	HOLIDAY AND BUSINESS TRIPS						
		1 to	SHORT 3 NIGHT:	LONG 4 NIGHTS OR MORE - %					
A.	Managerial		32			25			
B.	Supervisory		26	9/3		24	*1		
C.	Skilled Manual		25	2		28	ii.		
D.	Unskilled		16			25			

Which social group A, B, C or D spends the most time away from home?

### Population, Settlement and Trade

34. The maps show land-use at a settlement in 1881 and 1981 respectively.

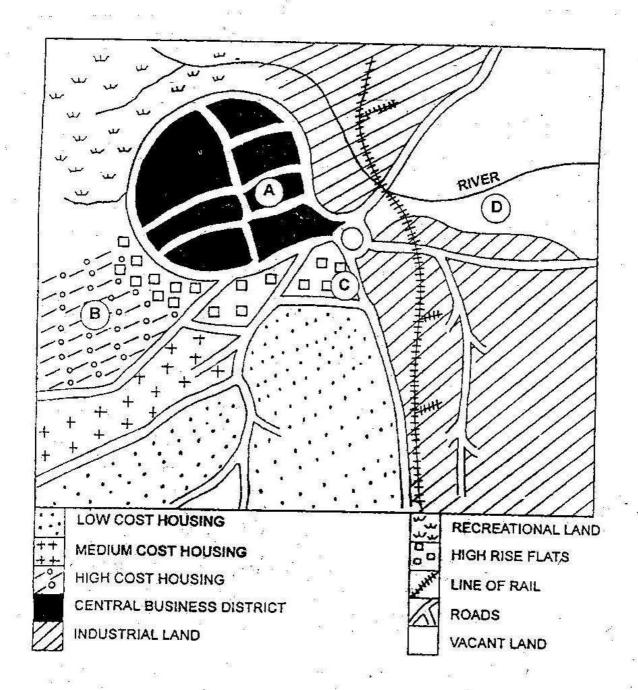


The main change that has taken place is that the settlement has

- A. a drastically altered street pattern.
- B. more urban functions.
- C. decreased in services.
- D. less vegetation cover.

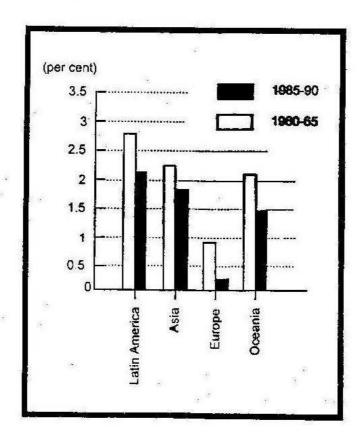
Turn over

35. The sketch map below shows the land-use zones of a city in a developing country.



In which of the zones A, B, C or D is a squatter settlement most likely to develop?

36. The bar graph shows the average annual population growth rates for four regions in the periods 1960 - 65 and 1985 - 90.

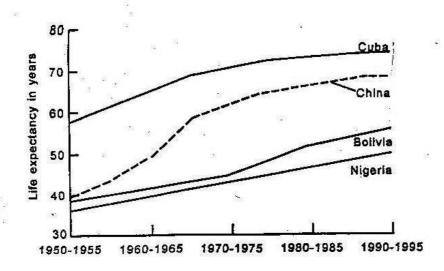


Which region had the largest drop in its population growth rate from 1960 to 1990?

- A. Oceania
- B. Europe
- C. Asia
- D. Latin America

Turn over

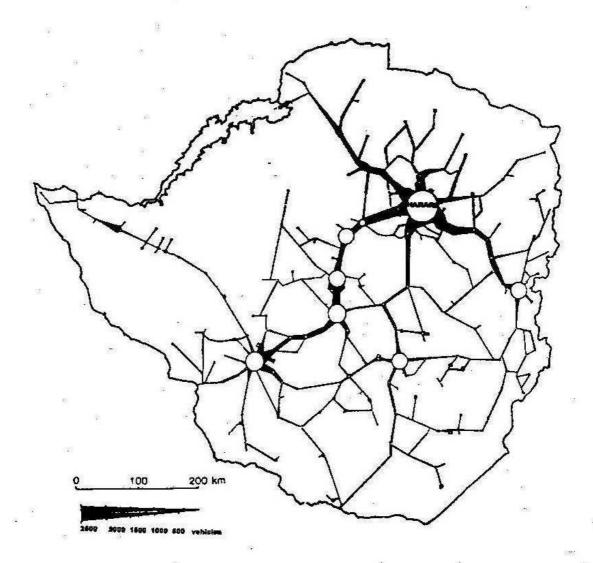
37. The graphs show the rise in life expectancy for the male population in four developing countries between 1950 and 1995.



The country which experienced the greatest improvement in male life expectancy is

- A. Bolivia.
- B. China.
- C. Cuba.
- D. Nigeria.
- 38. Which one of the following diseases could be controlled by the provision of clean and safe water sources to communities?
  - A. Bilharzia
  - B. Cholera
  - c. Kwashiorkor
  - D. Malaria

## 39. Volume of traffic on Zimbabwe's roads.

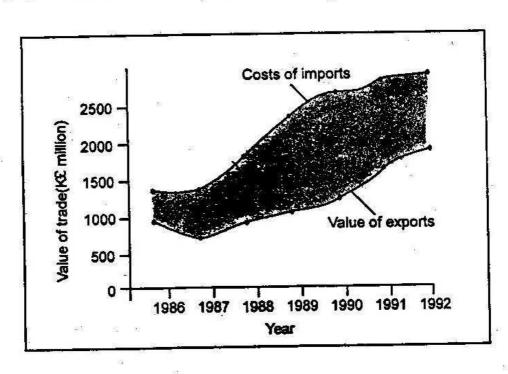


The technique used to show the volume of traffic on the map above is

- A. bar graph.
- B. scatter diagram.
- C. flow line.
- D. pie chart.

Turn over

40. The graph shows the value of exports for Kenya between 1986 and 1992.



During which of the following years did the country experience the largest trade deficit?

- A. 1988
- B. 1989
- **C.** 1990
- D. 1991

**GEOGRAPHY** 

### **JUNE 2001**

### 2248/01

### **POSSIBLE ANSWERS**

### MAPWORK (1:50 000 MBALABALA)

### **ECONOMIC GEOGRAPHY**

1. C 2. B 26.

B

D 27.

3. A 4. C 28. A

29. B

5. A C

30. C

31. B

7. B 8.

3.2

Α

33.

9. A

A

11.

10.

6.

12.

D

### **PHYSICAL ENVIRONMENT**

### POPULATION, SETTLEMENT AND TRADE

13. В 14. D

16.

34. В

35. D

15. B C

36. В 37. В

17. D

18. D 38. В 39.

19. В 20. A 40.

C

21. A

C

22. C

24.

25. D

23.

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/2

PAPER 2

Monday

11 JUNE 2001

Morning

2 hours 30 minutes

Additional materials: Answer paper

15691

TIME 2 hours 30 minutes

### INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer four questions.

Answer one question from each of Sections A, B and C and one other question from any section.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

### INFORMATION FOR CANDIDATES

The number of marks is given in brackets () at the end of each question or part question. Insert 1 contains Photographs A and B for use with Questions 3 and 4. Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

This question paper consists of 14 printed pages, 2 blank pages and 1 insert.

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ØZIMSEÇ 2001

[Turn over

### Section A (Physical Environment)

Answer at least one question from this section.

1. (a) Fig. 1 shows some landforms and geological processes in Africa.

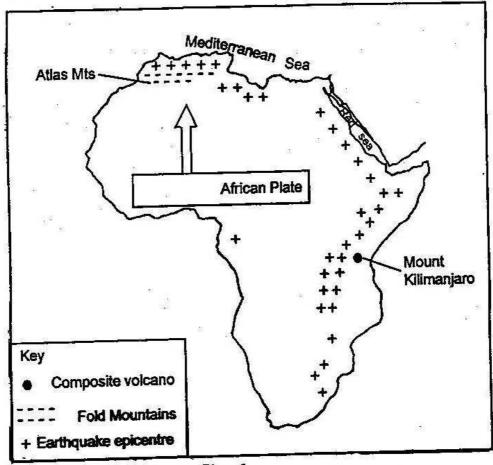


Fig. 1

- Draw a labelled diagram to show the cross section of the Atlas mountains. (5)
- (ii) Using Fig. 1, describe how the Atlas mountains were formed. (5)
- (iii) Describe the distribution of the earthquake epicentres shown on Fig. 1. (3)
- (b) Some river valleys experience frequent flooding. Suggest the benefits the floods bring to both the people and the environment. (7)
- (c) Explain the process of exfoliation. (5)

#### Fig. 2 shows information on Cyclone Domoina. (a)

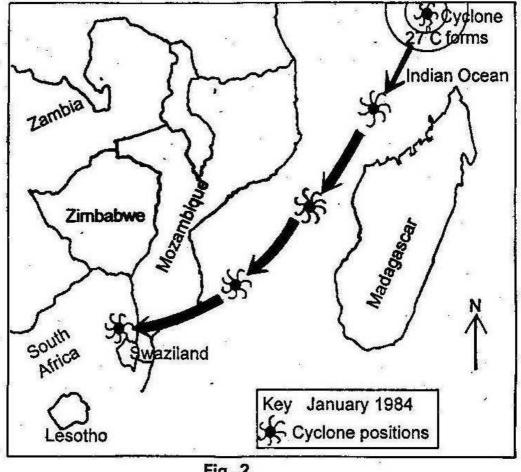
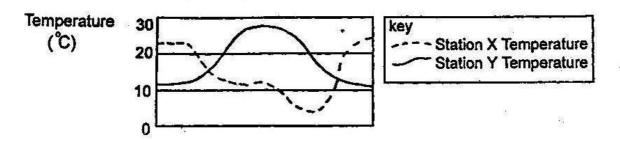
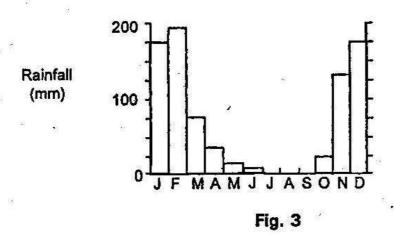


Fig. 2

- With reference to Fig. 2, describe the formation and (i) (5) movement of Cyclone Domoina.
- (ii) State three effects of Cyclone Domoina over the land surface it travelled across in January 1984. (3)
- In your view, what steps should people take to solve (iii) the problems caused by cyclones? **(7)**

(b) Fig.3 shows climatic graphs for two stations X and Y. X is in the southern hemisphere and Y in the northern hemisphere. The rainfall is the same for both stations but the temperature is different.





- (i) Describe the type of climate for each of the stations X and Y. (6)
- (ii) For either X or Y, describe how the climate influences human activities. (4)

### 3. (a) Fig. 4 shows the nutrient cycle in a Savanna ecosystem.

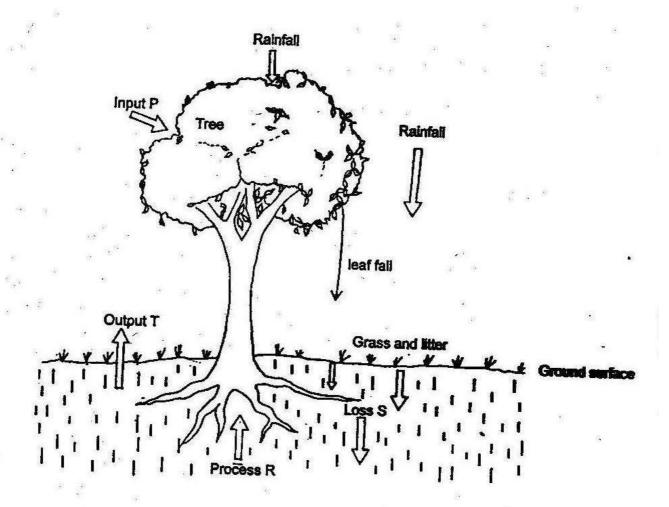


Fig. 4

- (i) Explain the term 'ecosystem'. (2)
- (ii) On your answer paper, name input P, process R, loss S and output T. (4)
- (iii) Describe the role of plants in the ecosystem shown on Fig. 4. (5)

[Turn over

Study Photograph A (Insert 1) which shows land use in an (b) ecosystem.

> What evidence shows both positive and negative human interference in the ecosystem?

(7)

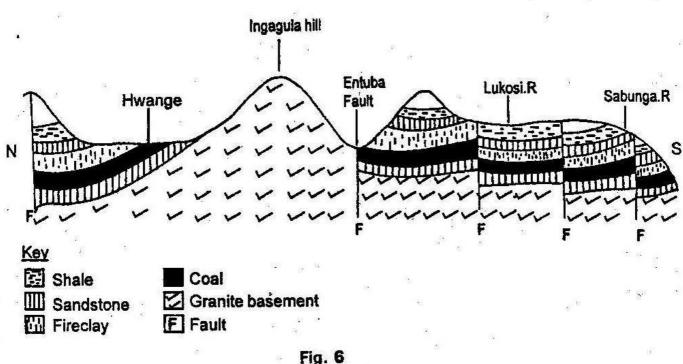
Desertification is threatening the survival of rural areas. (c) : As a Natural Resources Officer, explain why you would be concerned about this problem.

(7)

## Section B (Economic Geography)

Answer at least one question from this section.

Fig. 6 shows a sketch section across the Hwange coalfield. (a)



- Draw a labelled diagram to show the method of (i) (4)mining the coal at Hwange.
- State and explain two problems likely to be faced in (ii) mining the coal south of Ingagula hill. (4)
- Study Photograph B (Insert 1) which shows the exploitation (b) of timber in Zimbabwe.
  - (3)Describe the scene in the photograph. (i)
  - Compare the advantages of timber production shown (ii) in photograph B with that of indigenous forests. (7)

### ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/2

PAPER 2

**INSERT 1** 

Monday

11 JUNE 2001

Morning

2 hours 30 minutes

### **INSTRUCTIONS TO CANDIDATES**

This insert contains Photograph A for use with Question 3(b) and Photograph B for use with Question 4(b).

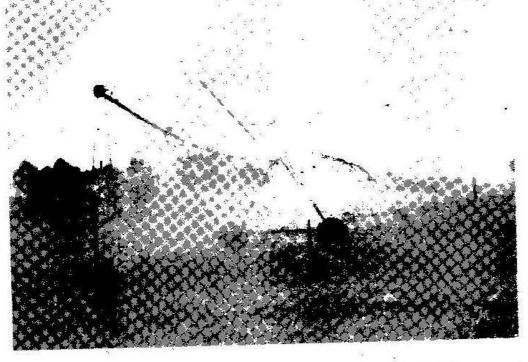
This insert consists of 2 printed pages.

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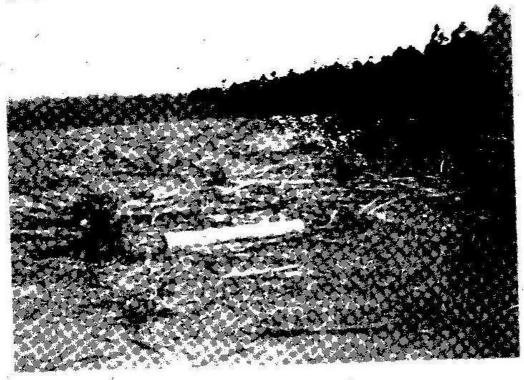
[Turn over

# Photograph A for Question 3(b)



⊚ Mr. E. M. Munowenyu

# Photograph B for Question 4(b)



⊚ Mr. S. T. Moyo

- The use of coal is extending to rural areas while coal mines (c) are using trees to reclaim mine dumps. Discuss the (7) advantages of each programme.
- Fig. 7 shows results of a sample survey on problems faced 5. (a) by communal farmers in Zimbabwe.

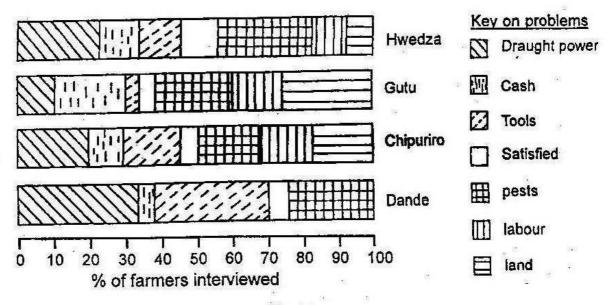


Fig. 7

(iii)

- Name the type of graph used to show the (i) information on Fig. 7.
- (1)
- Calculate the percentage of farmers with tool problems (H) in Dande and those with land problems in Gutu.
  - Using information on Fig. 7 only, explain why Hwedza

(2)

(4)

As an Agritex Officer, what steps would you take to (IV) solve the farming problems in the Dande communal

is likely to be the most successful farming area.

(7) lands?

(b) Fig. 8 shows a cotton growing system.

#### Physical inputs

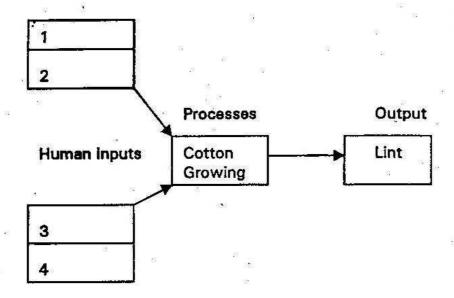


Fig. 8

- (I) On your answer paper, complete the diagram by filling in the physical inputs 1 and 2 and the human inputs 3 and 4. (4)
- (II) Describe the processing and marketing of cotton in Zimbabwe. (7)
- 6. (a) (i) Give an example of an industry for each of the following types of technology: low, intermediate, high. (3)
  - (ii) Explain why there are few high technology industries in Zimbabwe. (4)
  - (iii) The following conditions apply to an industry wishing to locate at an export processing zone (E.P.Z.):

ability to earn foreign currency; conservation of the environment; and taxation.

Explain the type of technology this industry would use to meet the conditions above. (4)

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### (b) Fig. 9 shows the industries of Greater Cairo, Egypt.

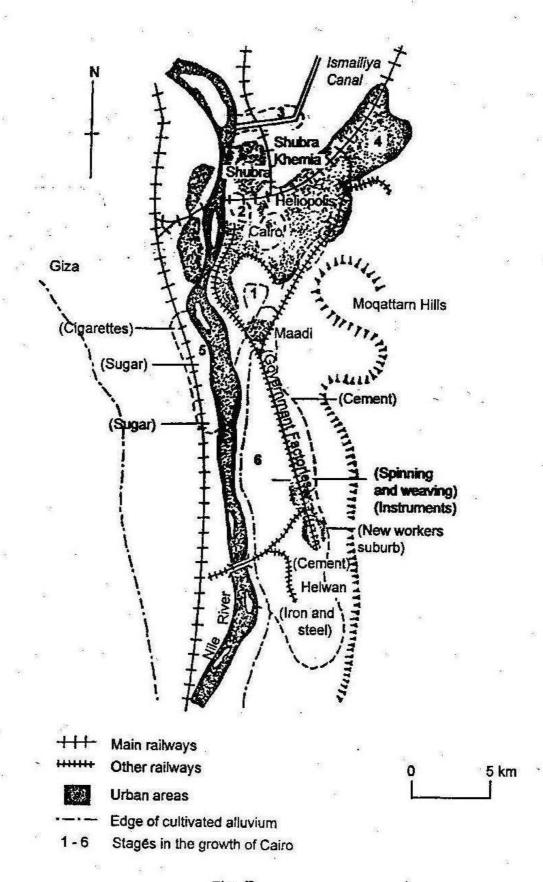


Fig. 9

2248/2 J2001 [Turn over

- (i) Describe and explain the distribution of industries in the Greater Cairo area shown on Fig. 9. (7)
- (ii) What environmental and human hazards are associated with the industries found in the Helwan district of Cairo? Suggest measures which can be taken to solve the problems. (7)

#### Section C (Population, Settlement and Trade)

Answer at least one question from this section.

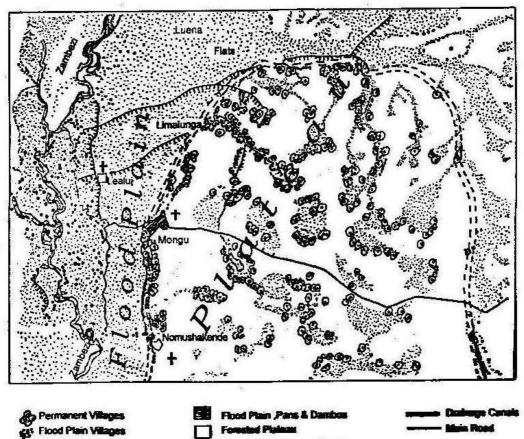
 (a) Table 1 shows the percentage of population in specific age groups in selected countries in 1995.

RVA	TABLE 1	_8-	
Country	Under 15	15 - 65	Over 65
Brazil	32	63	5
U.S.A.	22	66	12
Italy	.15	69	. 16
Zimbabwe	47.	51	2

- (1) What is the dependency load for Brazil and for Italy? (2)(iii) Using Table 1, describe the differences in life expectancy. (3) Draw graphs, to scale, to show the age groups given (iii) in Table 1 for the U.S.A. and Zimbabwe. (6)(iv) Explain the economic problems the countries are likely to face as a result of their population structures and suggest steps you would take to solve these problems. (7) Explain the causes of rural to rural migration. (i) (3)
- (ii) Describe the social effects of these migrations in both the source and the receiving areas. (4)

(b)

8. (a) Fig. 10 shows part of the Mongu-Lealui district in the Barotse province, Western Zambia.



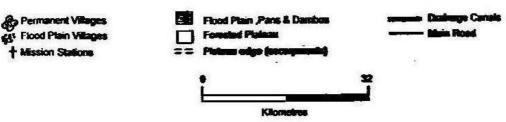


Fig. 10

- (i) Describe the distribution of the villages in the area shown. (4)
- (ii) Give reasons for the distribution described in (a) (i) above. (4)
- (iii) Outline the environmental problems faced by the villagers settled along the Zambezi flood plain.
  Suggest solutions to these problems. (7)

[Turn over

(b) Fig. 11 shows the urban population in Africa as a percentage of the total in 1994.

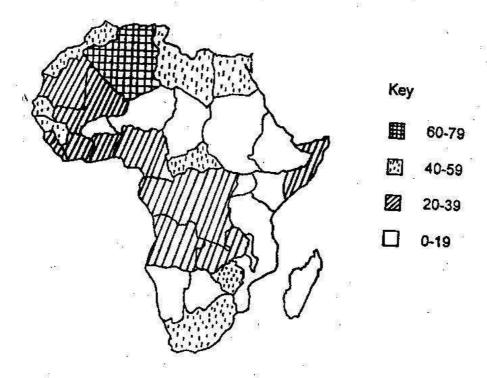
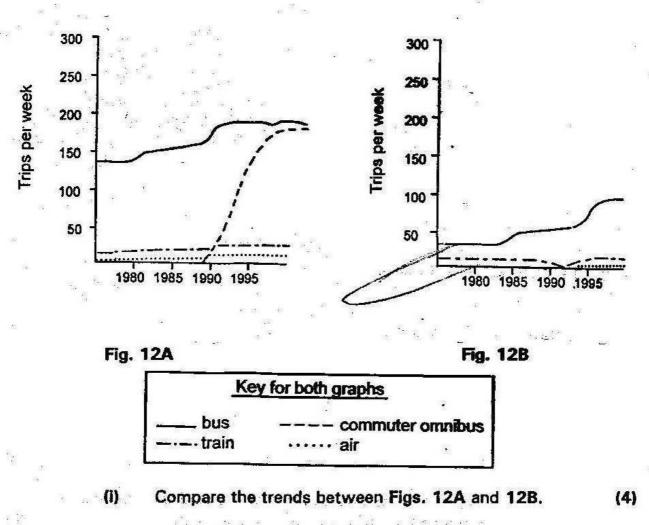


Fig. 11.

(i) Explain the term 'urbanisation'. (2)
 (ii) Describe the variations in the level of urbanisation in Africa shown on Fig. 11. (4)
 (iii) Describe the problems of rapid urbanisation in Africa. (4)

9. (a) Fig. 12A shows passenger transport per week between Harare and Bulawayo and Fig. 12B between Harare and Masvingo.



- (ii) Give reasons for the differences outlined in (a) (i) above. (4)
- (iii) Outline the problems faced by the bus and commuter omnibus transport between Harare and Bulawayo and suggest solutions to these problems. (7)

2248/2 J2001

[Turn over

(b) Fig. 13 shows areas of favourable and unfavourable trade in Zimbabwe.

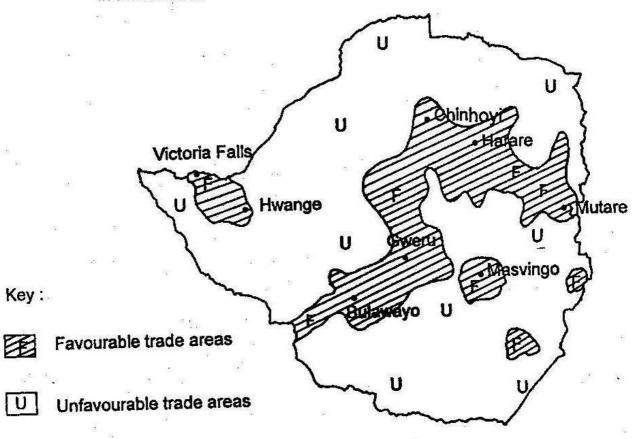


Fig. 13

- (i) Using map evidence only, describe and explain the pattern of trade shown on Fig. 13. (6)
- (ii) Suggest measures Government should take to improve the areas of unfavourable trade shown. (4)

#### 2248/02

### **POSSIBLE ANSWERS**

1 (a) (i) Diagram to show the following:

upfold
(mt)

Syncline
(valley)

valley

strata

plane

Diagrams of overfold, recumbent fold and overthrust fold are acceptable alternatives as separate answers.

overhanging crest bedding plane

Recumbent fold

Bent-over crest

overthrust fold/Nappe

fault line

strata

bedding plane

(ii) African plate moving north at its fore was the Mediterranean geosyncline. Erosion occurred, sediments were deposited in this geosyncline. As the African plate moved northwards, it compressed the sediments on its edge which folded into anticlines and synclines forming the Atlas mountains. (5)

### (iii) Description of epicentre distribution

- many in/around the Atlas Mountains/North Africa
- many around the Red Sea/North East Africa
- many along the Rift Valley/East Africa
- one in West Africa
- a few on the eastern part of Southern Africa
- mention of specific countries, e.g. many in Rwanda and Burundi/Eastern DRC. (3) {13}

### (b) Benefits to people

Water to drink, water for livestock, fishing, transport, industry, fertile soils, recreation, pasture, irrigation, alluvial - mineral deposits, e.g. gold.

#### **Environment**

Plants bloom, food for herbivores, small insects, bacteria, aquatic life become active. (7) {7}

(c) The rock is heated by the sun, only the surface layer is affected because rock is a poor conductor of heat. The surface layer will expand because of the heat, by so doing it peels off from the lower main rock. At night the surface layer cools and contracts thereby peeling off from main rock. Repeated heating and cooling promotes peeling in the presence of moisture. (5) {5}

2. (a) (i) Formation - Over ocean

North of Madagascar

Sea surface temperature high/27°C

Low pressure area.

Movement - S.W. along Mozambique channel/between

Mozambique and Madagascar cyclone deepens/intensifies

Decay - over land, loss of moisture/weakness (5)

	(ii)	deaths, floo- contamination diseases.	ding, ho	omelessness, food destruction ater, destruction of communication	lines (3)	•
*	(iii)	evacuation, water supply operations.	tempoi y, medi	rary shelter, food supply, clean ical aid, burying the dead, rescue	(7)	{15}
(b)	(i)	Station X - cool and dry high temper	in wint atures;	na, high temperatures ter, warm and wet summer, October to March, low il to September.	15	
		dry summer	s, high	erranean, cool wet winters, warm temperatures April to mperatures October to March.	(6)	
;	(ii)	For both X a	and Y props from	nked to climate. cloughing, planting, weeding, com frost, irrigation, harvesting,	(4)	{10} MEI
3. (a)	(i)			e inter-relationships between the non-living (abiotic) things in any are	ea. (2)	[25]
	(ii)	Input P Process R Loss S Output T		solar energy, carbon dioxide uptake of nutrients/osmosis/capil action/absorption leaching, nutrient loss heat/gases, water vapour	llary (4)	
数	(iii)	Process/fea	<u>ture</u>	Function		
3°		Photosynthe Shade for re Leaf fall Leaves		<ul> <li>to provide food to the tree</li> <li>to keep moisture for the tree</li> <li>to provide humus, humic acid for weathering, reduce transpiration</li> <li>to intercept rainfall</li> </ul>		mical
*	3	Roots	*	<ul> <li>to prevent erosion</li> <li>to provide food for animals, she</li> <li>bind soil/reduce erosion, improinfiltration</li> <li>anchor the plant</li> </ul>		22 (20)

Transpiration - cooling, provides moisture, provides/recycles air, i.e. oxygen and carbon dioxide. (5) {11}

### (b) Positive effects

Irrigation - makes soils intact to prevent erosion.

bacteria become active, preventing drying of soils.

Fencing - preventing over grazing,

to protect parts of the land.

Afforestation - binding soils together,

increasing biodiversity,

Cropping - soil erosion prevented,

biodiversity improved.

Ploughing/cultivation - aeration of soil,

improved infiltration.

Negative effects: The process/land use activity to be identified and effects described as follows:

Ploughing - breaks the soil, erosion promoted.

Use of machinery - compaction of soil, destruction of soil

structure/texture, plough pan effect.

Irrigation - salinisation, leaching

Deforestation - land is left bare, increased erosion,

reduced moisture from transpiration,

(7) {7}

(c) Shortage of water, lack of pasture, increased soil erosion, lack of firewood, reduced rainfall, death of animals, reduced food production, starvation, temperature changes/global warming, loss of biodiversity/extinction of species. (7) {7}

[25]

4. (a) (i) Diagram - open cast mine,

Accept - the stepped structure of the mine,

the dragline, tipper lorries, dumps

of overburden.

46 N	· · · · · · · · · · · · · · · · · · ·	18	overburden	0000
	OPEN CAST	MINE	dump —	7. V.
ground surface	former are	und surface		0.5.5.5
country rocks	Z Zdraglii		erraces Sicon	intry, rocks !
<del>',',',',</del>			1 7 1 1	al seam
mineral seam		一一一	711	1
		-160-190°	٠٠٠٠٠٠٠	
	COUAT	try rocks,		11111
	mineral sea	[M]		
	country rocks			
THITT	mineral seam	ШШ		THIL

(4)

### (ii) Problem

### - tunnel collapse

- flooding of mines
- gas explosion
- mining expensive
- risky

### **Explanation**

- shaft mining used
- seams deep under-ground
- shaft mining
  - seams not straight faulting/broken seams
    - shaft mining
    - gas explosion/collapse/ rockfail/shafts/faults

(4) {8}

	(b)	(i)	<ul> <li>cut logs and branches</li> <li>trees reshooting from stump</li> <li>trees in pure stands/gum tre</li> </ul>	s es/plantation	SE .
		**	- trees crowded	**	
	14		- trees of almost the same he	ight, ground flat, sk	y blue,
			dry leaves		30
			- bare/brown soil, tree bark		100
				<u> </u>	
	(ii)	Timb	er production in photograph B	compared to that of	indigenous
	77	fores		MATERIAL PROPERTY AND A SECOND	
		10.00			器
		- to	ees quickly mature,	**	
=48			ees in pure stands,	·	88
	<b>(8</b> )		asy to control disease,		82
			WALLEY CONTRACTOR OF THE PROPERTY OF THE PROPE	88	w
	88		ogs are straight,		18 °
			ees are softwoods,	*	-177
		- e	asy to cut,		82 BX
Ŕ	X.N Z.T		ees regenerate themselves from	m stumps last,	
			heaper to harvest,	18/18/	
	影	- c	lear/cleaner cutting		
		- ir	ntensive use of land/more trees	per unit area.	(7) {10}
	· /=\	Hee	of coal in rural areas		2
	(c)	USE	Of Coar III Turar areas	40	141
103		_	annonation of woodlots	***	18
			onservation of woodlots		25
34	14		ntroduction of new technology		
	96		educed deforestation	148	
			nore energy is produced		¥
\$210.0			etter cooked food	140.00	3
		- D	educed trips for firewood collec-	tion.	
	100	Mins	e dump reclamation	91 =	60
		141111	J Garrison Tourist Control of the Co	537	
911		, t	ourism promotion,		x
			mprove beauty of the environment	ent	
			1 1371 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(C)	
			erosion controls,	M	80
			conservation,	58	
	6%	107	pollution controls,	~	(7) (7)
		- (	control of slumping.	3	(7) {7} [25]
				NV	<b>.</b>
( <u>*</u>	7.3	7:5	Compound bar graph/divided	d har graph/nercent	lane divideri
<b>5</b> .	(a)	(i)		d bai grapinpercent	(1)
		10	bar graph		111
		7::1	Dondo: tools 22 to 24%		
		(ii)	Dande: tools 32 to 34%	<b>L</b>	(2)
		350	Gutu: land problems 38%	DT	(2)
			18	\$5 \$1	3
295			82		10
53				- 100 - 100	970 88
	8			62	33

### (iii) Reasons:

- almost all land used up
- small percentage with tool problems
- . large percentage of fermers satisfied
- . small percentage with cash problems
- small percentage with labour problems. (4

## (iv) Solutions to Dande problems

Draught power: kill tsetse, restock, give tractors/

tillage units, use of donkeys

Tools: provide tools, more hoes,

steel ploughs, harrows, planters

Pests: spray, burn, biological control, e.g.

permaculture.

Cash: loans (7) {14}

### (b) Physical inputs:

soil, water, land, temperature, air, climate.

### **Human inputs:**

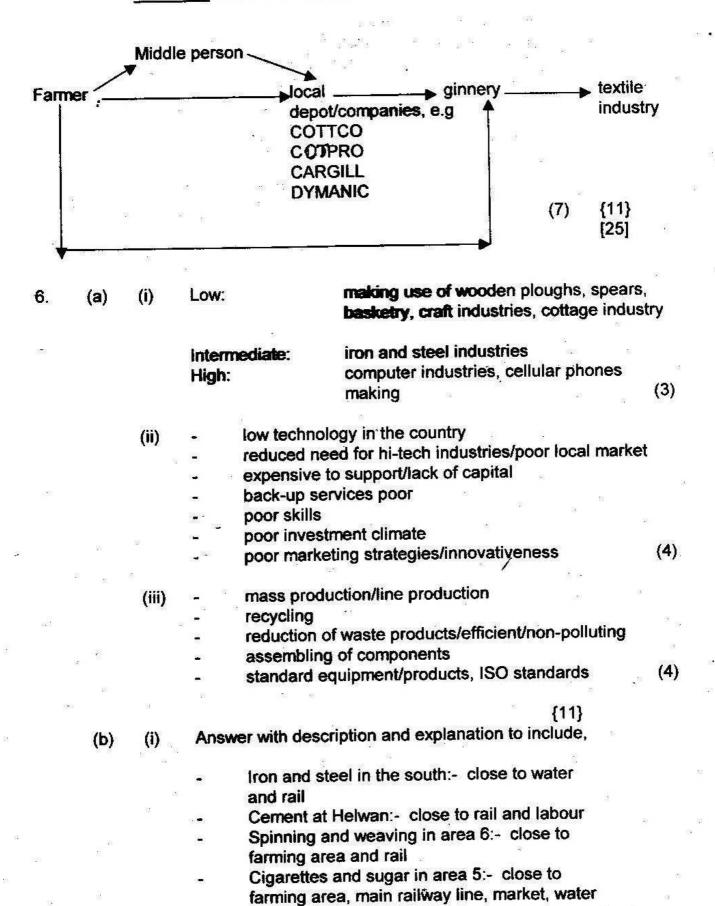
labour, fertilizers, chemicals, machinery, seeds, knowledge/skills.

(4)

### Processing:

ploughing, hoeing/weeding, spraying, picking/harvesting, packing, grading, baling, grading, ginning, washing, carding, spinning, packing, lint baling.

### Marketing: as flow line shows



- close to railways line transport close to Nile river water
- (7)
- (ii) <u>Hazards</u> water and air pollution, noise pollution, destruction of vegetation, land degradation, diseases, death of fish, land pollution/dumping

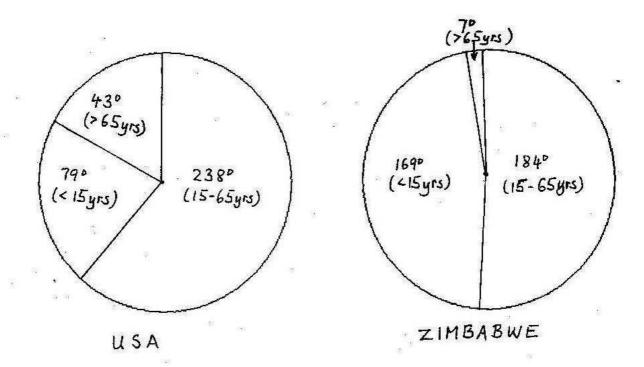
Measures - relocation of industries, strict pollution control policies, laws governing use of the land, improved technologies, waste recycling, proper dumping sites, education. (7)

**{14}** [25]

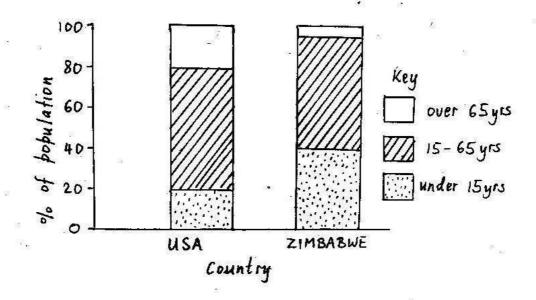
7. (a) (i) Brazil - 37% Italy - 31%

- (2)
- (ii) Low for Zimbabwe, followed by Brazil, highest for Italy, followed by U.S.A. (3)
- (iii) The diagram can be bar graphs or pie charts.

### Either: As Pie-Charts



## Or: As Bar graph (divided/compound)



NB. For bar graphs three bars for three age groups each country can be drawn. (6)
U.S.A. and Italy

Problems	Solutions			
- future reduced labour force	<ul> <li>encourage population growth, immigration, capita intensive technology</li> </ul>			
- too many old people	- old peoples home have to be built			
- a lot of pension funds needed	<ul> <li>national social security programmes</li> </ul>			
- reduced population therefore reduced market	- encourage population growth, export goods			

## Zimbabwe and Brazil

8.

	¥2	Problems	Solutions		37
		- too many dependants	- population control security/old peo		
*		- strain on the labour force	- population cont	rol	
ř		- unemployment/need to create more jobs	- investment	1935 1935	
	ä	- inadequate facilities/need for more schools, clinics	- build more, pop control	ulation	
	<i>i</i>			<b>(7)</b>	{18}
(b		overpopulation, famine/drought, attraction in the form of more lan volcanoes, intermarriages, socia	d and fertile soils,	floodin	
	(ii)	Source area:			
	8	<ul> <li>fewer people, families sep standards of living, reduce under-utilised services/inf development.</li> </ul>	ed pressure of socia		ices,
		Receiving area:	*		
	101	More people, new social relation better living standards, scarce fa		ement	רכו
		areas.		(4)	{7} [25]
(a	) (i)	- linear along the Zambezi			**************************************
	i	<ul> <li>linear along the escarpment</li> <li>scattered on the plateau</li> </ul>			950
	•	- circular around pans and damb	os (wetlands)	(4)	

\$3		(ii)	Reasons for distribution as described in (i) above:	72	
		į.	Flood plain - flat, fertile, for water, for fish.  Escarpment - free from floods, easy to build,		
			spring water, free from diseases.  Plateau - flat, free from floods, diseases, cooler, for defence.	×	
				4)	
		(iii)	Problems Solutions		
			-flooding-death -transhumance, evacuation		
			-malaria -spraying		
	<u>.</u>		-bilharzia -spraying and draining wate -wet soils/waterlogging -drainage (	7)	
	(b)	(i)	This is the rapid growth of cities and towns due to		85 - 32 86
		1,000		2)	
		(ii)	- highest in Algeria		
		2 .	2nd highest in RSA, CAR, Egypt, Libya,	8	
		33	Tunisia & Morocco, Zimbabwe		
			<ul> <li>followed by Central Africa and West African countries</li> </ul>	•	
		100	<ul> <li>least urbanized, Mozambique to Ethiopia belt,</li> </ul>		
			Niger, Chad, Burkina Faso, Benin, Togo, Guinea	a.	
			Namibia, Botswana. (	4)	
		(iii)	poor housing, unemployment, squatting, strain on		
			resources/health, education etc. increased crime,		38
			overcrowding, spread of diseases, reduced living	35	
			standards, street kids/people/vagrants, prostitution,		74
	9		pollution, traffic congestion. (	4)	[2
	(a)	(i)	higher volume for bus in 12A than 12B, no commuters 12B, lower train traffic 12B/started later than	in	
			in 12A, air travel in 12B was lower, lower volume in		
		*	12B than 12A for all traffic types.	(4)	
		(ii)	- higher bus in 12A - more passengers		81
Ç.		in i	<ul> <li>no commuter omnibuses in 12B - competition/</li> </ul>	**	See.
	150	*	dominance of bus travel		
.85			<ul> <li>lower air traffic - lack of passengers, slump in</li> </ul>		
		530	economic activities/tourism		
			<ul> <li>greater demand for commuter omnibuses in 12A</li> </ul>		3
		•		38	i i

9.

8 2	(iii)	Prob	olems	5	Solutions		2
18		- acc	cidents/overs	speeding	- more policing/de	fensi	/e
I Reeks		- 006	ercrowding	*	<ul> <li>police patrols/mo use trains</li> </ul>	re bu	ises/
		- poc	or/narrow roa	ads	- widen roads, resi	urfac	e roads
100		- tou			- ban them		
		- sho	ortage of fue	H	- buy more/more for	лех	
*			are parts sho		- forex availability		{15}
(b)	· (i)	- mai - trar - ma - less	inly the mair nsport, good any RMS, co s in the lowv s market, ha	n towns and I market, tra ool velds→ less irsh physica	veld → linking towns cities → good ined labour force, transport, less labour, l environment on linked to explanation.	(6)	×
	/;:X						
	(ii)	19 <del>7</del> 8.		ourism in the	ese areas		
			establish l				
*		-	power sup		ansport networks/		
	* v	3E 500	resettle pe	eople in the	se areas		
÷		X		growth point		(4)	{10} [25]
					PARIE		11

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## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

## **GEOGRAPHY**

2248/1

PAPER 1 Multiple Choice

Thursday

**29 NOVEMBER 2001** 

Morning

1 hour 15 minutes

1:50 000 Survey Map is enclosed with this question paper

Additional materials:

Multiple choice answer sheet

Soft clean eraser

Soft pencil (type B or HB is recommended)

163227

TIME

1 hour 15 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so by the invigilator.

Write your name, Centre number and candidate number on the answer sheet in the spaces provided unless this has already been done for you.

There are forty questions in this paper. Answer all questions. For each question there are four possible answers, A, B, C and D. Choose the one you consider correct and record your choice in soft pencil on the separate answer sheet.

Read very carefully the instructions on the answer sheet.

### INFORMATION FOR CANDIDATES

Each correct answer will score one mark.

A mark will not be deducted for a wrong answer.

Any rough working should be done in this booklet.

This question paper consists of 24 printed pages.

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Turn over

## Map work

Questions 1 to 12 refer to the 1:50 000 map of Mvuma (Zimbabwe).

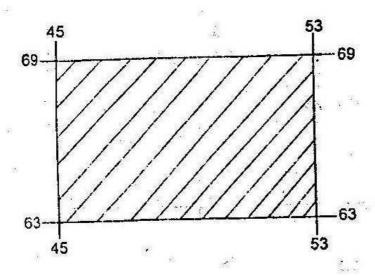
What is found at grid reference 448556?

1.

	870	33.					35	
	Α	bridge				8 8	1.00	1.00
	В	junction	S\$	3.85			**/8	
	C	plantation				200	3 8	
136		village						
5. <sup>60</sup>	D	is the description of the second of the sec						
2.	The	dip tank which is ab	out 1,5 km	north of F	airfield Sid	ding (44	55) is four	nd at
BASIFE S	orid	reference point			*		192	
	grid	IBIDICIOO POINC	IW.			8 8	50 ES	2h
		AACETO	<b>5</b> (6)		-		89	
	A	446572.			EF -A			283
	В	454588.						12
	C	572446.			-	*	143	200
	D	588454.				188		
	255	₩	CONTROL CONTRO			abar af	hute?	92
3.	Whi	ch of the following g	rid squares	has the h	gnest nun	iber of	nutsi	
		18 8	- E	Ŷ. 7) B	87.7	17	189	3000
IS NO.	Α	4567	99 -			2	18 12 <sub>7</sub> 69	
	В	4667	98	988 986			E 4	3,626
	C	4566			10	76		140
- 83		4666		97. 32.	187	88	**	- F
	D	4000	100 ESE 1 8500	10			86 B	998 INT
A	The	dominant land-use i	n grid squa	re 4554 is	8		. 3	a a a
•	1110		*	§125)	48	12	80 80	10 No.
	31E	cultivation.					38	30
	A					e e	- 1 E 12	
	В	plantation.						
	C	settlement.	<u>a</u>			89.00	5001	100
	D	transport.	32				20.00	
		18 W		et Anne Canada anna e ¶aenaca		dominar	ac 3867 ar	d 396
5.	Wh	et is the length of th	e aerodrom	e running	across ym	a-squair	,5 0007 ai	10 000
*.*	100			23	8			
	A.	800 metres	8 E		40			
2	В				198		100	
	C	1 200 metres		68.1				
100	D	1 400 metres	588	29				
	D	1 400 menes		23.				
				10	Ų,			
		74. B			10 K			
28		. "% ∞"kl"	eg as no of	8	W	- P		
		D 22 22		T		69	38	
	核							

2248/1 N2001

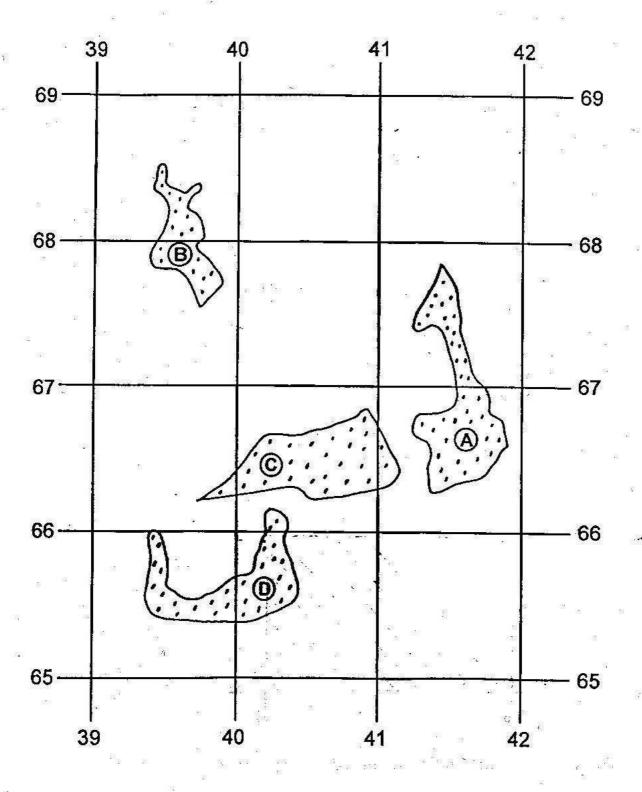
- 6. The grid bearing of trigonometrical station 1542 in grid square 4165 from spot height 1428 in grid square 4567 is
  - A 65°.
  - B 115°.
  - c 240°.
  - D 295°.
- A tourist standing next to trigonometrical station 1542/S in grid square 4165
  facing north-west observes a spectacular man-made feature standing out some
  700 metres away. The feature is a
  - A cemetery.
  - B chimney.
  - C dump.
  - D school.
- 8. The landform on which Mtao forest plantation is situated is a
  - A marsh.
  - B ridge.
  - C valley.
  - D watershed.
- 9. Study the map area shown below.



The settlement pattern in the shaded area is mainly

- A / clustered.
- B dispersed.
- C linear.
- D radial.

## 10. Study the map area shown below.



Which of the shaded land use zones A, B, C or D represents recreational land in Myuma?

### 11. The dominant natural vegetation in grid square 4960 is

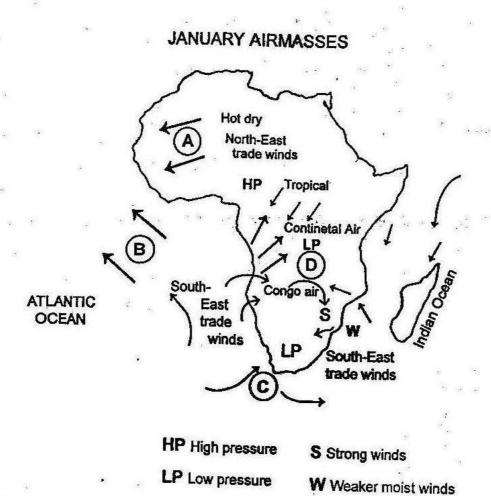
- A cultivation.
- B bush.
- C plantation.
- D marsh.

### 12. Which of the following grid squares has the highest number of streams?

- A 4366
- B 4466
- C 4566
- D 4666

### **Physical Environment**

### 13. Study the map of Africa below.

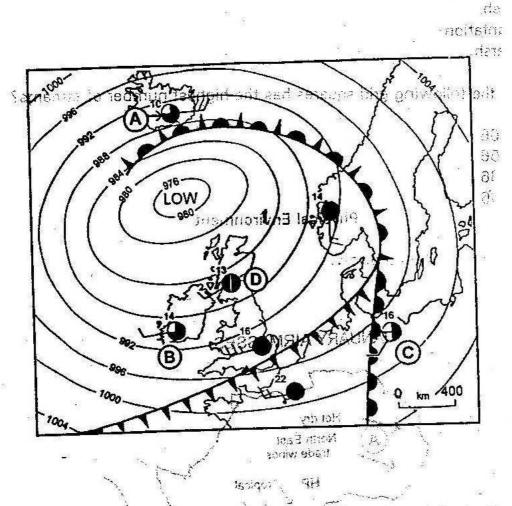


At which of areas A, B, C or D is a tropical thunderstorm most likely to develop?

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[Turn over

14. "The skies were nearly overcast; a South-west wind blowling at a speed of 15 knots was accompanied by a rain shower."



To which of stations A, B, C or D is the weather report referring?



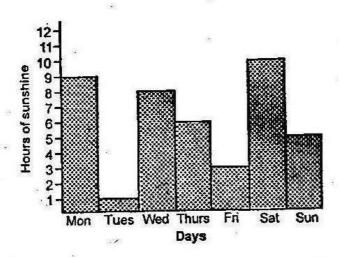
HP High pressure Signong winds
LP Low pressure Winds Weaker molet winds

To is a tropical thunderstorm most likely to develop?

teat His []

## 15. Study the diagram below.

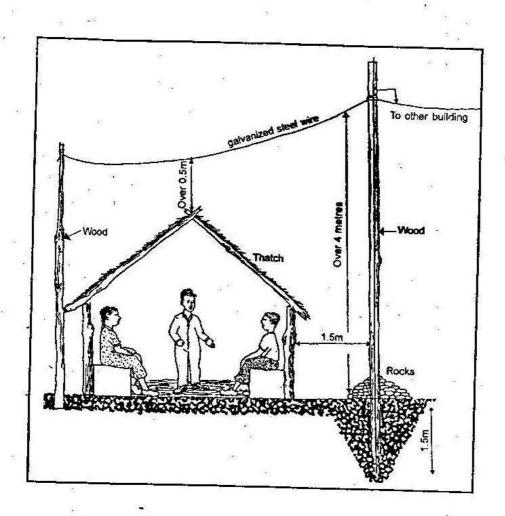
## SUNSHINE HOURS AT A SCHOOL WEATHER STATION



The period that showed the greatest change in sunshine conditions at the station was

- A Monday to Tuesday.
- B Tuesday to Wednesday.
- C Friday to Saturday.
- D Saturday to Sunday.

16. The diagram below shows a mechanism for protecting people against a weather hazard.

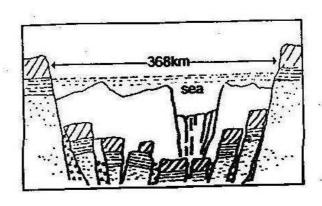


### The weather hazard is

- A flooding.
- B hail.
- C lightning.
- **D** wind.

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17. The diagram below shows the rock structure of part of the seabed.

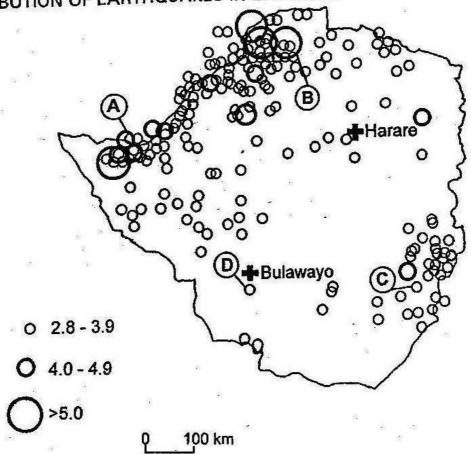


Which of the following processes resulted in the formation of this feature?

- A reverse faulting
- B overthrust folding
- c simple folding
- D normal faulting

## 18. Study the map below.

## DISTRIBUTION OF EARTHQUAKES IN ZIMBABWE

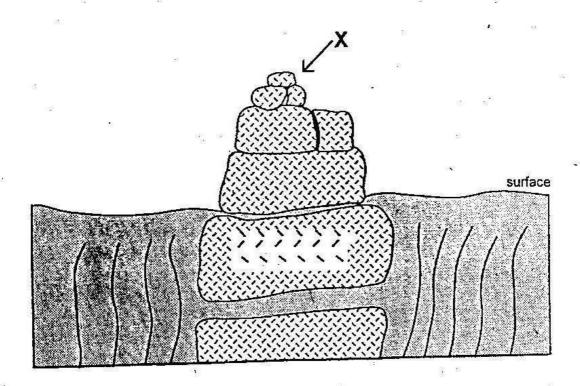


Which of centres A, B, C or D would provide an ideal site for the construction of sky scrappers?

2248/1 N2001

Turn ov

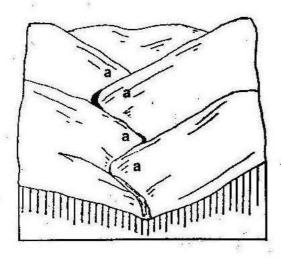
## 19. Study the diagram of a granite rock structure shown below.



The main process that contributed to the formation of feature X was

- A carbonation.
- B exfoliation.
- C hydration.
- D hydrolysis.

20. The diagram below shows part of a river valley.

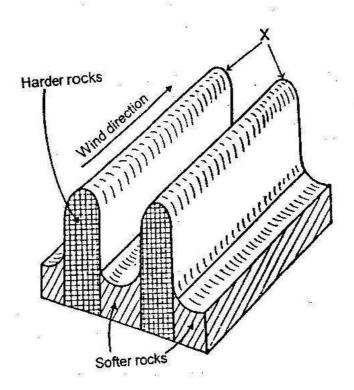


### Features marked 'a' are

- A lêvees.
- B bluffs.
- C interlocking spurs.
- D meander terraces.
- 21. Which one of the following processes is mainly responsible for the formation of potholes on a river bed?
  - A corrasion
  - B attrition
  - C solution
  - **D** deposition
- 22. Hot deserts are located on the western sides of continents because
  - A the coasts are washed by warm currents.
  - B the ITCZ is commonly experienced there.
  - c anticyclonic conditions prevail.
  - the trade winds blow on shore.

[Turn over

23. Study the diagram below which shows features produced by wind erosion in deserts.

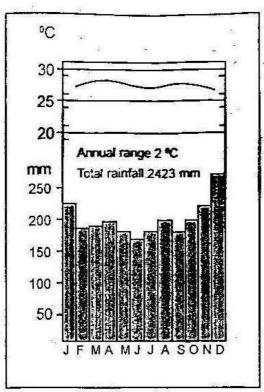


The features marked X are

- A clints.
- B dunes.
- C pedestals.
- D yardangs.

2248/1 N200

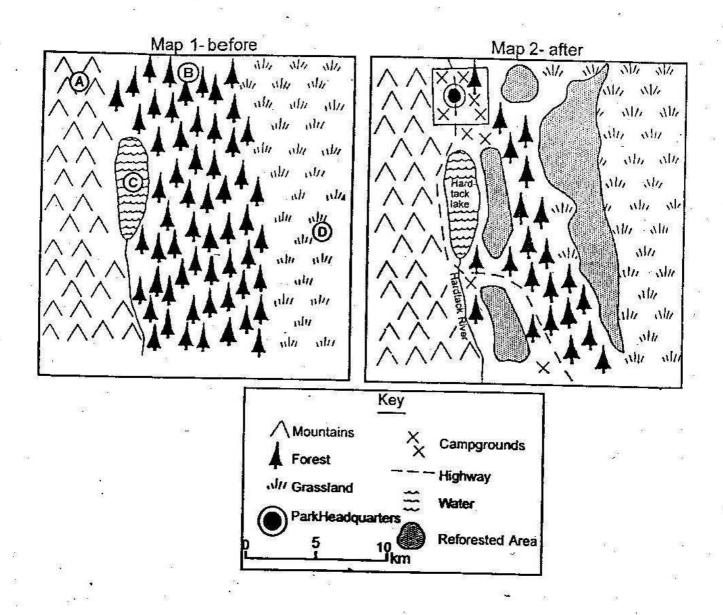
## 24. Study the graph below.



The natural vegetation that is most likely to develop under these climatic conditions is

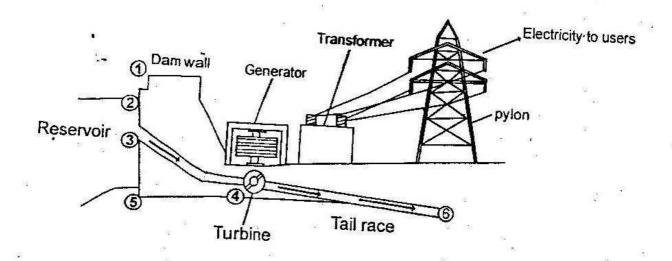
- A rain forest.
- B grass land.
- c monsoon forest.
- D Mediterranean evergreen.

25. Maps 1 and 2 show the environmental conditions of an area before and after human occupation respectively.



Which of ecosystems A, B, C, or D experienced the greatest changes?

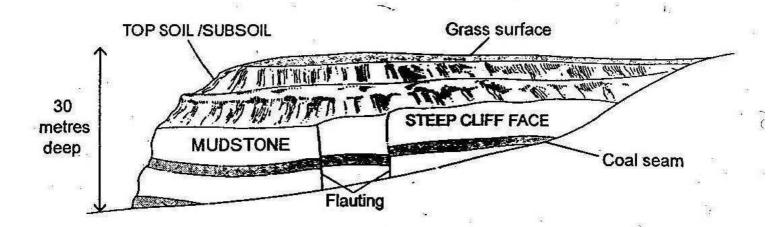
26. The diagram below shows a hydroelectric power plant.



The amount of power generated is mainly determined by the drop of water between points

- A 1 and 6.
- B 2 and 3.
- C 2 and 4.
- D 2 and 5.

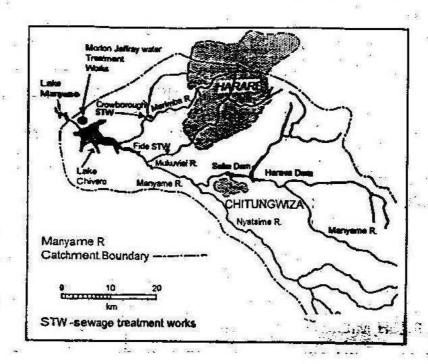
# 27. Study the diagram below which shows the rock structure of a potential mining site.



Which of the following mining methods would be most suitable for exploiting the coal seams?

- A alluvial
- B drift
- C open-cast
- D shaft

28. The map below shows sources of water for Harare and Chitungwiza.



Which of the following sources would provide Harare and Chitungwize with the least polluted water?

- A Lake Manyame
- B Seke Dam
- C Lake Chivero
- D Harava Dam
- 29. What is the most important aim of resettling people?
  - A to increase social services
  - B to house flood victims
  - C to accommodate refugees
  - D to relieve population pressure

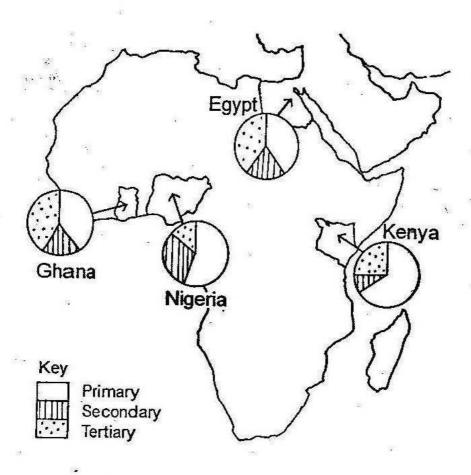
30. Study the table below which shows production of four crops in Chiweshe communal area.

N.	20	PRODUCTION IN BAGS PER HECTARE			
£	CROP	1980 - <b>81</b> Good <b>Rains</b>	1981 - 82 Drought		
Α	MAIZE	12,5	4,8		
В	SORGHUM	9,7	2,4		
С	GROUNDNUTS	12,5	5,0		
D	BULRUSH MILLET	8,8	2,7		

Which of crops A, B, C or D suffered the greatest drop in production during the drought years?

- 31. The type of farming where farmers maintain a permanent home but rotate their fields is
  - A shifting cultivation.
  - B bush-fallowing.
  - C co-operative farming.
  - D nomadic herding.

32. The map below shows the percentage of workers employed in various sectors of industry in four countries.

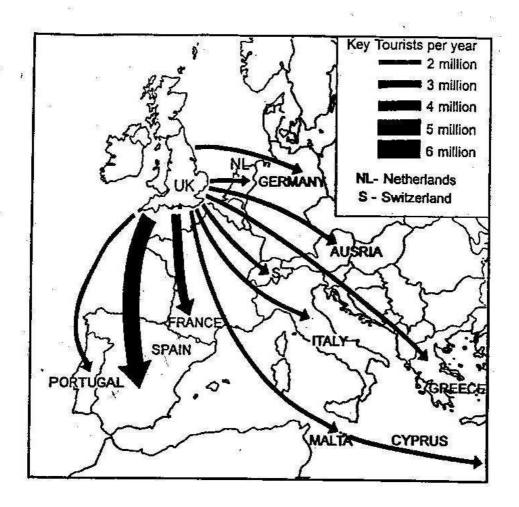


Which of the countries has the least developed economy?

- A Egypt
- B Ghana
- C Kenya
- D Nigeria

[Turn or

33. Study the map below which shows the movement of tourists from Britain into Europe.

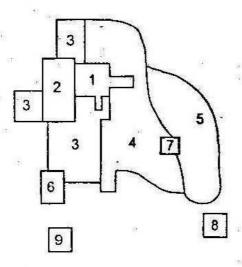


How many more British tourists went to the rest of Europe as compared to Portugal, Spain and France?

- A 2 million
- B 4 million
- C 6 million
- D 8 million

## Population, Settlement and Trade

34. The diagram below represents a land-use model of a town.

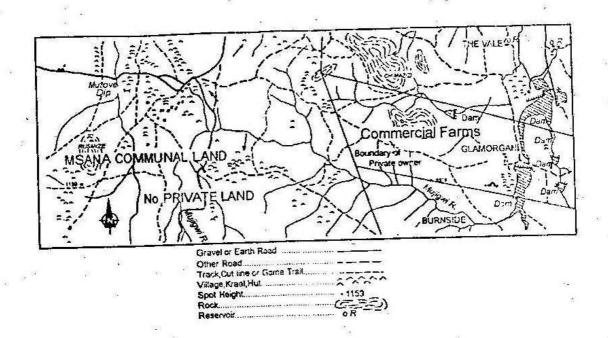


- 1 Central Business District
- 2 Wholesale, Light manufacturing
- 3 Low class residential
- 4 Medium class residential
- 5 High class residential
- 6 Heavy manufacturing
- 7 Outlying Business District
- 8 Residential suburb
- 9 Industrial suburb

Which of the following land-use zones would represent the residence and place of work of an unskilled worker employed at a large metal smelting plant?

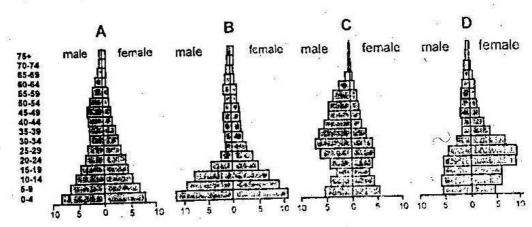
- A 3 and 1
- B 4 and 2
- C 4 and 7
- D 3 and 6

## 35. Study the map below.



Which of the following accurately describes the settlement pattern in the communal land and commercial farms respectively?

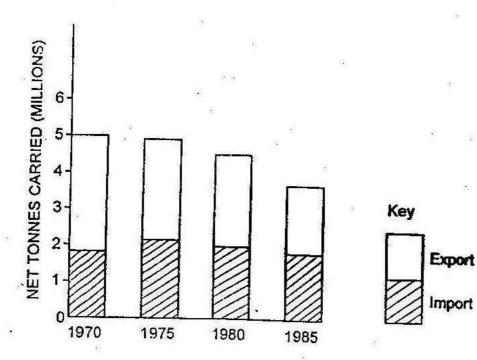
- A haphazard and circular
- B linear and clustered
- C dispersed and radial
- D nucleated and scattered
- 36. Study the age sex diagrams below.



Which of structures A, B, C or D would represent the population structure of a mining settlement?

2248/1 N2001

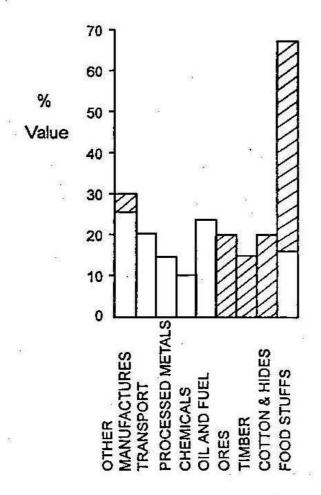
- 37. Which of the following health problems would confront volunteer workers to a flooded settlement following a tropical cyclone?
  - A measles and river blindness
  - B malaria and cholera
  - C sleeping sickness and chicken pox
  - D polio and hepatitis B
- 38. The bar graphs below show goods carried by the National Railways of Zimbabwe.



During which of the following periods did the goods carried show the greatest difference between exports and imports?

- A 1970
- B 1975
- C 1980
- D 1985

- 39. Which of the following methods of transportation would be most suitable for moving milk from a dairy farm to a large urban settlement 50 kilometres away?
  - A air
  - B rail
  - C road
  - D water
- 40. Study the graph below.



Exports
Imports

What percentage of imports by value is Other Manufactures and Chemicals combined?

- A 35%
- B 30%
- C 25%
- D 15%

## 2248/01

### **POSSIBLE ANSWERS**

## **MAPWORK (1:50 000 MVUMA)**

### **ECONOMIC GEOGRAPHY**

1.

3.

5.

7.

9.

11.

В

2.

Α

C

B

B

4.

B.

C

D

A

A

В

B

12.

6.

8.

10.

28.

26.

30

32.

A

C

C

D

31.

27.

29.

C

D

В

B

B

C

**3**3 A

## PHYSICAL ENVIRONMENT

13. D

15.

19.

21.

14.

D

16. C

17. D . 18.

D

C

A

20.

A

D

B

D

A

24.

POPULATION, SETTLEMENT AND TRADE

34. D

36.

40.

35.

C

A

A

37.

38.

39.

22. C

25.

23.

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/2

PAPER 2

Monday

5 NOVEMBER 2001

Morning

2 hours 30 minutes

Additional materials: Answer paper

180566

TIME 2 hours 30 minutes

#### **INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer four questions.

Answer one question from each of Sections A, B and C and one other question from any section.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

### INFORMATION FOR CANDIDATES

The number of marks is given in brackets ( ) at the end of each question or part question.

Insert 1 contains Photographs A, B and C for use with Quantities 4 and 5.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

This question paper consists of 15 printed pages, 1 blank page and 1 insert.

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(Turn over

# Section A (Physical Environment)

Answer at least one question from this section.

1. (a) Study Fig. 1 which shows the internal structure of the Earth.

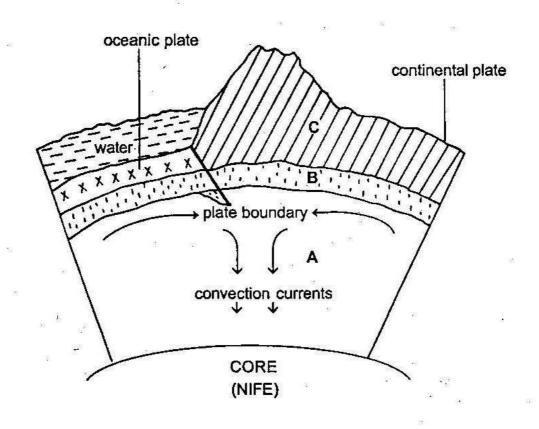


Fig. 1

Name the layers marked A, B and C. (3)(i) (2) What minerals make up the core of the Earth? (ii) With reference to Fig.1 and any other evidence, describe and (iii) explain the movements of both oceanic and continental plates. Draw a labelled diagram to show the features of the flood plain (i) (b) (4) stage of a river valley. What, in your view, are the benefits and problems faced by (ii) people living in the upper and lower course of a river valley? (8)

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## 2. (a) Fig.2 shows environmental features over Southern Auto-

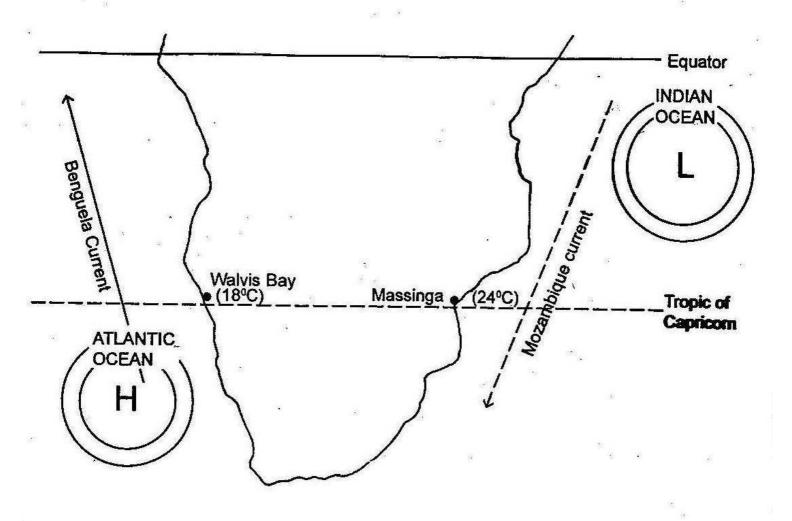


Fig. 2

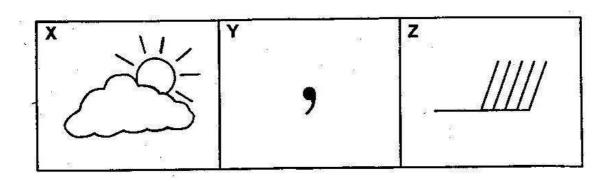
Using information from Fig. 2., answer the following questions.

- (i) Describe and explain the differences in temperature between
  Massinga and Walvis Bay. (4)
- (ii) State the air mass associated with each pressure pattern shown.

  Give reasons for your answers.

  (4)
- (iii) Describe the temperature and humidity characteristics of the air mass formed in the Indian Ocean. (2)

[Turn over



- (3)
- (ii) Explain how the construction of dams and the development of urban settlements influence weather conditions.
- · (6)

(6)

(c) What weather information would you give to farmers living in high and low rainfall areas to increase their production?

## 3. (a) Fig. 3 shows factors innuencing ecosystems.

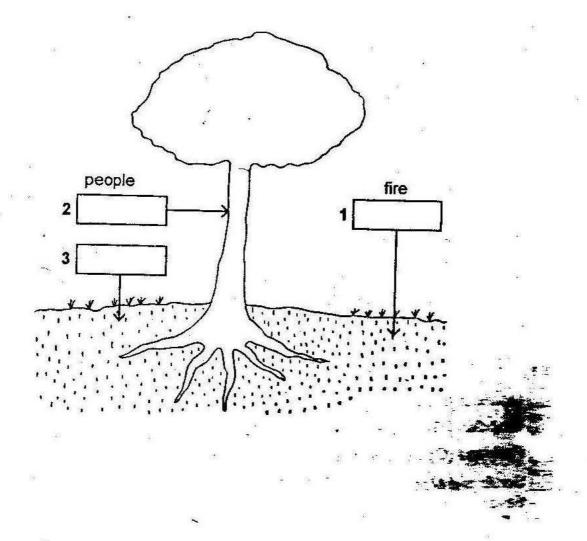


Fig. 3

- (i) On your answer sheet, identify the effects 1, 2 and 3 shown. (3)
- (ii) As a land development officer, what measures would you recommend to control veldfires? (3)

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(b) Fig. 4 shows the distribution of Savanna ecosystems in Zimbabwe.

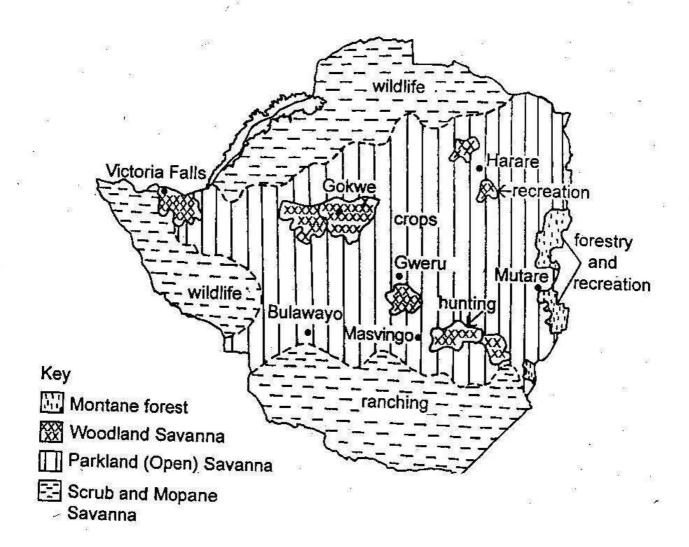


Fig. 4

(i) Describe the distribution of the ecosystems shown.
(4)
(ii) Describe the relationship between the ecosystems and the landuses shown.
(4)
(ii) Choose one ecosystem and explain the problems which have arisen from the landuse shown.
(4)
Describe the positive and negative effects of irrigation to the arid and semi-arid ecosystems.

(c)

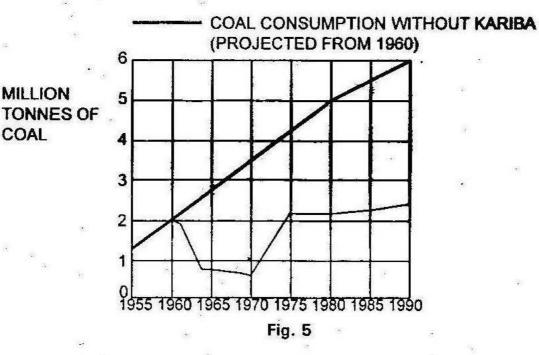
### Section B (Economic Geography)

Answer at least one question from this section.

- Photograph A (Insert 1) shows the exploitation of the tropical rainforest.
  - (i) Describe the methods used to cut the forest. (3)
  - (ii) Describe the problems associated with the exploitation of the tropical rainforest shown. (4)
  - (iii) What steps must be taken to conserve the tropical rainforest? (4)
  - (b) Fig. 5 shows coal consumption for energy purposes in Zimbabwe, 1955 - 1990.

ZIMBABWE: COAL CONSUMPTION FOR ENERGY PURPOSES (1955-1990)

COAL CONSUMPTION WITH KARIBA (1960 ONWARDS)



COAL

- (i) Describe and explain the trends in the consumption of coal shown. (6)
- (ii) State the benefits of coal to Zimbabwe. (5)
- (ii) Put forward arguments against the mining of minerals. (3)

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[Turn over

- 5. (a) Study Photographs B and C (Insert 1) which show different methods of land preparation for farming purposes.
  - (i) Describe the method of land preparation shown in each photograph. (6)
  - (ii) Explain the advantages and problems that will arise if the method shown in C was introduced in B. (8)
  - (b) (i) Define the term 'nomadic herding' and describe the characteristic features of nomads. (In your answer, refer to the traditional routes of movement followed, the animals kept and the way of life of the nomads).
    (8)
    - (ii) Why do you think nomadic herding is disappearing in Africa? (3)

## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

**GEOGRAPHY** 

2248/2

PAPER 2

INSERT 1

Monday 5 NOVEMBER 2001

Morning

2 hours 30 minutes

TIME 2 hours 30 minutes

#### **INSTRUCTIONS TO CANDIDATES**

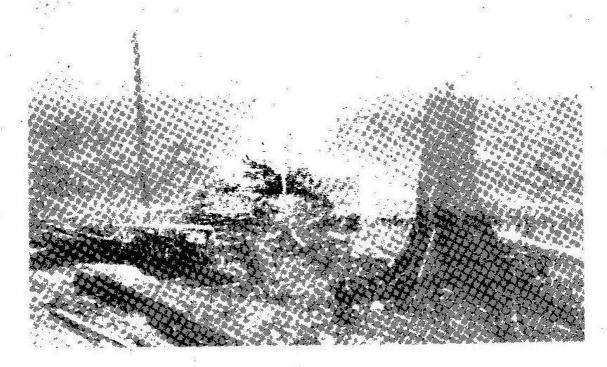
This insert contains Photograph A for use with Question 4(a) and Photographs B and C for use with Question 5(a).

This insert consists of 3 printed pages and 1 blank page.

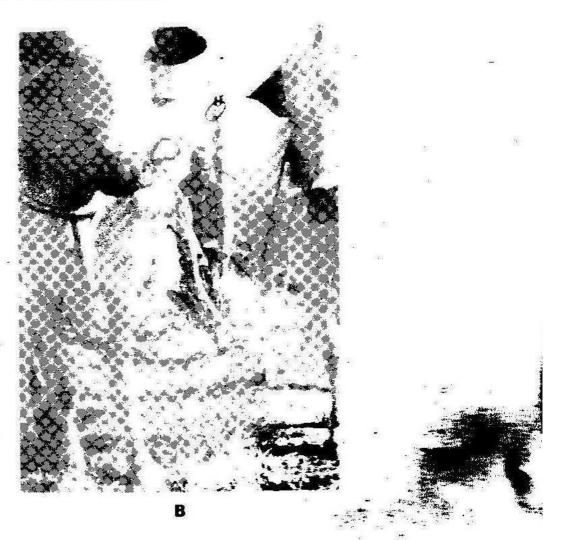
Copyright: Zimbabwe School Examinations Council, 2001.

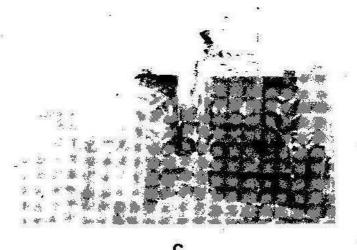
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Fig. 6

Describe the distribution of the oil refineries shown. (4)(i) The location of oil refineries has been influenced by the market, (ii) break-of-bulk and raw materials. Give one example of each (6)location and explain your answer. State two other industries associated with oil refining. (2) (iii)

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- (b) (i) State the inputs and outputs of iron ore smelting in a blast furnace. (4)
  - (ii) With reference to a named manufacturing industry you have studied, explain why you would recommend its continued existence to government. (9)

# 7. (a) Table I shows the age structure of population for three regions of the world.

TABLE 1

	Age Structure - % of total population				
Region	Under 15	16 - 64	Over 65		
Southern Africa	42	54	4		
North America	25	64	11		
East Asia	34	60	. 6		

- (i) Draw a pie chart, to scale, to show the age structure of Southern Africa.
- (ii) Calculate the dependency ratio for East Agia. (1)
- (iii) Compare the population characteristics for the three segions. (3)
- (b) Suggest solutions to the problems of rigid population growth in Southern Africa. (7)



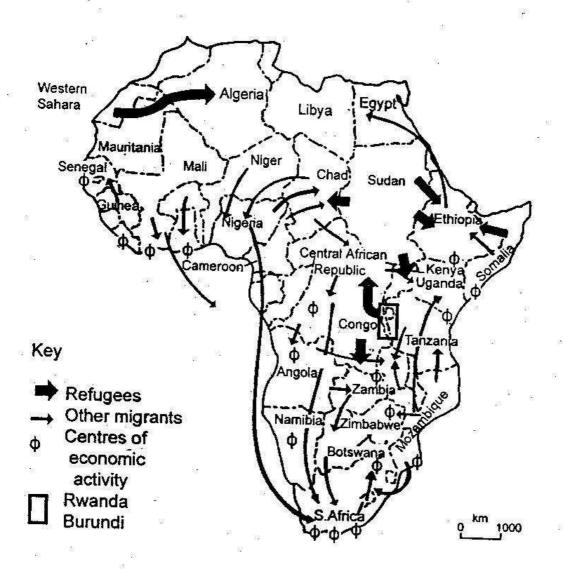


Fig. 7

(i)	Explain the term 'population migration'.	20 NSA	(2)
(ii)	Describe the patterns of migration shown in Fig. 7.		(4)
(iii)	Explain how economic factors influence migrations.	8 3	(5)

- (i) \*In your view, what are the reasons for this? (6)
  - (ii) Describe the advantages of rural life compared to that in urban areas.
  - (b) Fig. 8 shows the growth of cities with more than 1 million people.

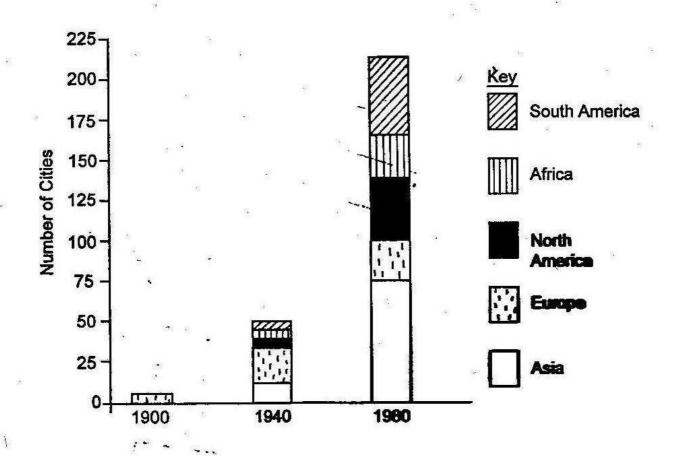


Fig. 8

- (i) Describe the changes in urban growth shown in Fig. 8. (6)
- (ii) For Africa and Asia, what problems have arisen as a result of rapid urban growth? (4)
- (c) With reference to a named urban settlement you have studied, draw a fully labelled map to show its major landuse zones. (6)

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(3)

(a) Fig. 9. shows regional and overseas direct flights for some S.A.D.C. airlines.

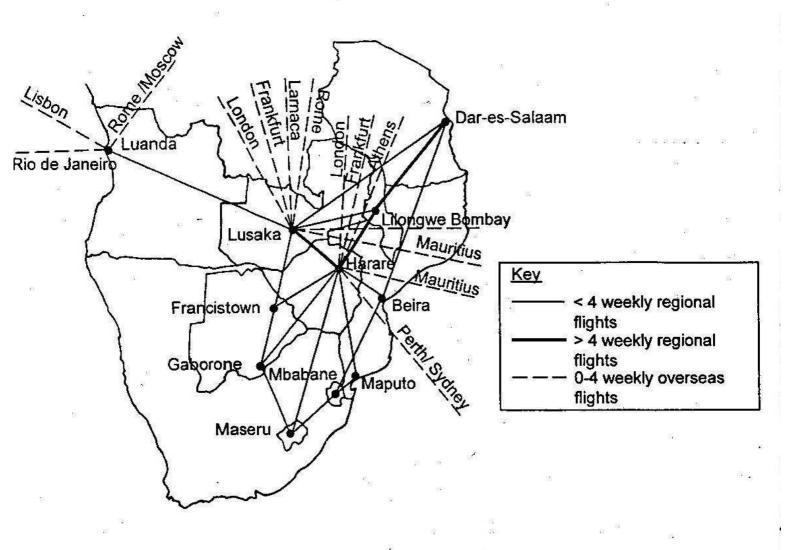


Fig. 9

- (i) Describe and explain the regional and overseas direct flights shown in Fig. 9. (6)
- (ii) Outline the new developments that are taking place in modern passenger air travel. (4)
- (iii) There are plans to construct either an airport or a new road in an area. State and explain the factors which influence the siting of one of the two.

  (6)

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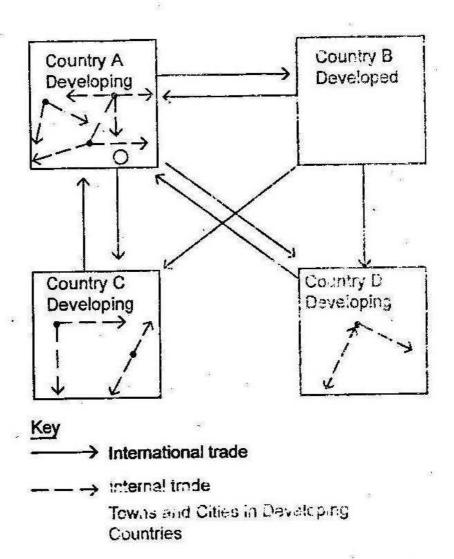


Fig. 10

(i)

reason for this type of trade in the country. (2)

(ii) Explain the advantages of Country A over Countries C and D from the trade links shown in Fig. 10. (4)

Name the internal trade marked 0 in Country A. Give one

(iii) State the major exports of developed countries. (3)

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(8) {13}

#### 2248/02

### **POSSIBLE ANSWERS**

A - mantle/mesosphere (i) 1. (a) B - sima/oceanic crust (3)C - sial/continental crust

> (2)iron, nickel. (ii)

**Explanations** (iii) **Description** 

- convection currents - collision of plates - divergence of plates - convergence

- compressional forces

- tensional forces

- divergence

- subduction of oceanic - denser

plates

- oceanic ridges/ rift valley

- convergence/uplift/compression - folding

- subduction - trenches - faulting/folding volcanic eruptions

earthquakes evidence of continents - faulting//plate movement

- divergence/convergence/plate movement

b. (i

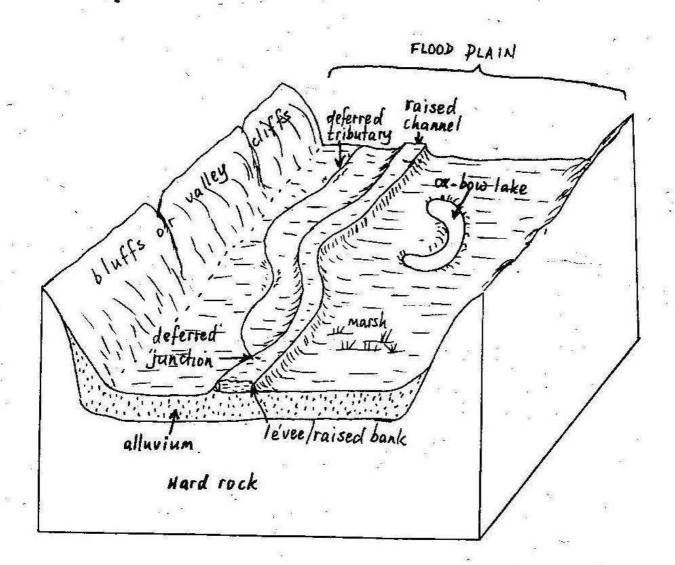


Diagram may also include - meanders - braiding - terraces

ces (4)

			36	
b	(ii) ·	<ul> <li>water supplies - diff</li> <li>tourist attraction - ero</li> <li>water sport - ma</li> <li>easy to build dam</li> <li>walls, bridges</li> </ul>	icult navigation icult to set up settlement	**
	98%	- alluvial plain - wa - fertile soils - ma - more water - ma - fishing - floor	olems ter borne diseases/bilharzia/ty alaria arshes oding er blindness	yphoid (8)
			s water downstream	{12} [25]
(a)	(1)	Massinga - warmer (higher temperatures - small temperature range - near to warm ocean current - on-shore S.E. winds bring warm temperatures	Walvis Bay  - low temperature  - large temperature range  - near cold ocean current  - on shore winds very  cold	(4)
8	(ii)-	Names - tropical maritime(mT)	Reasons - formed within the tropics - over water	S
	*	- polar maritime (mP)	- formed outside tropics - over water	(4)
**	(iii)	Temperature - high/warm/hot (24- 30°C)	Humidity – high/moist/ humid	(2) {10}
(b)	(i) '	X - partly cloud		iol
*		Y drizzle	* e	
139		Z - hurricane, gale force wi	nds/50 knots	(3)

- evaporation increases humidity
- increased cloud cover
- reduced temperature range
- higher rainfall
- land/lake breeze
- more frequent fog/mist

- pollution/acid rain/smog
- urban heat islands/global warming
- wind corridors/increased wind speed
- more rainfall
- low pressure
- reduced sunshine/increased cloudiness

#### (c) High Rainfall Area (3)

- grow water loving crops, e.g. rice
- control floods/dam construction/afforestation/ dykes
- soil conservation/contour ridges/terracing
- draining waterlogged areas
- apply fertilizer to reduce infertility due to leaching
- disease/pest control
- weed control
- rotational penning of livestock game and cattle ranching
- practice zero tillage
- cloud seeding

#### Low Rainfall Area (3)

- keep/grow drought resistant/tolerant animals/crops
- practice irrigation
- conserve water/ damming/ boreholes/reservoirs
- winter ploughing
- grow short season varieties
- cloud seeding
- zero tillage

- mulching

**{6}** [25]

regeneration of plants, destruction of micro organisms, (a) 1. destruction of humus, reduction in biodiversity deforestation, forest protection 2. cultivation/manuring/irrigation/ploughing, 3. erosion, compacting, fertilizer use/conservation (3) legislation, patrols education fireguards firefighters early warning system look-out towers/observation towers  $(3) \{6\}$ Montane forest - in the east, Nyanga, Vumba areas (b) Woodlands - Bikita/Zaka/Shurugwi, Harare, Victoria Falls. Scrub + Mopane - South and North West and North and West of Zimbabwe. Parkland Savanna - much of the country, east and Central Zimbabwe. (4) Montane Forest - forestry and recreation. (ii) Woodland Savanna - hunting and recreation. Parkland Savanna - growing crops, Scrub/Mopane Savanna - ranching and wildlife. Land use problems for the specific ecosystems include: (iii) Scrub and Mopane overgrazing/erosion Savanna - environmental degradation poaching - animal related diseases/ foot and mouth/tick borne diseases. Woodlands Savanna - erosion - siltation - pests and diseases - poaching - animal extinction - pollution - environmental degradation - migration of game

			T di Niano e	/CITCHTTO		<del>un anama</del> industria de la colo		
						siltation		
2010				**		environmental degrada	ation	
53.		35.				- pollution		
	*					loss of nutrients		
				185			30-	
						- desertification	82	39
	E.			18				<b>k</b> 3
			Montane F	Forest		- erosion		
			17701100110			- deforestation	200	2080
						- land pollution		26
			*			- poaching of timber		
						- forest fires		
*				2			141	{12}
					22	- reduced biodiversity	(4)	1125
				85-			46	
	7-1	Positi	ivo	water into	sniks	increased cover by crop	os	
	(c)	Positi	ive -	soil soins s	utrion	ts from solution and cro	op residue	<del>9</del> 8
			·	son gams m		of air increases		
		38		relative nun	micity	of air increases		
			.=	increased h				
				reduced wit	ind er	osion		
		Nega	utive -	clearance o	of bus	h/deforestation	*	
		rege	uvo	salinisation				
			9 <del>.4</del>	increased of				
				increased c	uesei	of soils/logobing		
56			₩.			of soils/leaching	(7)	m
				fungal dise	eases		(7)	<i>₹</i> 7}
								[25]
							188	
4.	(a)	(i)	fire chair	saws, clea	ar cutt	ing/total patch clearanc	e,	
7.	(4)	1.7	axes, pol	tanting			(3)	
			axes, por	mana.				
		****	100000000000000000000000000000000000000		vogot	ation, muddy, mixed/ina	ccessible	•
		(ii)	buttless i	OOIS, BIKK	voye:	mid conditions disease	s nests	-
			torests, v	Net coudino.	กร, กษ		s, poolo; wild anim	ade
			hot/enerv	rating condit	tions,	bulky, heavy, climbers,	WIN CITE	icro,
			snakes.				(4)	
		(iii)	- affore	station		-20	Ě.	35
		//		estation		:26		
		16.			d with	other products		
		146			A AAIFI.	odio. producio		
30	*1			tive cutting				
				legislation			8	
			- ban u	ise of fire				
	37 de		- educa	ation		\$		
				sing/quota s	vsten	1		
			The same of the sa	t reserves			(4)	{11}
			- 10163	I I COO! A CO		37		300
	107		<i>\$</i> 6	50		1870		
	-83					0.8		

		Section (Section Control Contr								
(b)	(i)	Coal consumption without Kariba	19							
		1955 - 1980: rose rapidly - major source	)							
		1980 - 1900: rose steadily - use of alter								
		1955 - 1990: generally high - increased	demand, availability							
	Ya Se	Coal consumption with Kariba	18							
		1960 - 1963: sharp decline - introduction	n of hydro electric power							
		1963 - 1970: slight decline - increased of	demand, availability							
		1970 - 1975: sharp increase - industrial	growth							
		1975 - 1980: steady - little demand from								
160	2.6	1980 - 1990: slight increase - industrial (								
		economic growth after the war								
		1960 onwards: low generally - use of att								
12		sources	(6)							
	10004410		Ses							
	(ii)	- employment creation	-							
333		- source of energy								
		<ul> <li>industrial use - raw material</li> </ul>	TD							
		- construction of roads								
		- drugs, insecticides, nylon								
		<ul> <li>expansion of Hwange Town</li> </ul>	182							
		- market to other industries	10 00/ <del></del>							
		- foreign currency earner	(5)							
	(iii)	- pollution - air, noise, land, water	132 186							
26	VA	- open pits, curve-ins, disasters	196							
		- spoil heaps	U.							
	10	- fluctuation of prices								
		- deforestation	<b>S</b>							
<b>19</b>		- soil erosion	*							
		- siltation								
	50°	- resettle people	- (3) <u>{14}</u>							
		20 No.	[25]							
(a)	(i)	Photograph B	[20]							
6.0000										
insd	85	- two cattle spanned								
		- use of ripper plough	82							
		- traditional/draught power								
		8. 9.	103 86							
	8%									

5.

#### Photograph

- modern tractor used
- many discs on plough/disc plough
- modern/mechanised

(6)

## (ii) Advantages of method shown in Photograph C

- limits rate of erosion
- fast
- efficient
- saves on human labour
- deep tilth
- moisture conservation

## Problems of method shown in Photograph C

- high costs of inputs
- lack of fuel, spares, forex
- reduces employment
- lack of knowledge
- lack of capital

(8) {14}

(b) (i) <u>Definition</u>: movement of farmers with their

livestock in search of water and pasture.

Animals: cattle, goats, camels, mules, sheep.

Way of life: simple, intertwined with livestock,

e.g. food, clothing, settlements, other belongings, traveling light quickly pitch

up/break settlement.

Routes latitudinal changes/seasonal changes,

upland versus lowland direction, e.g.

North-South and vice versa for Fulani.

- (ii) Reasons for the disappearance of nomadic herding
  - increased population
  - improved education
  - movements into town/urbanization
  - governments control movements

(3){11} legislation [25] **Description** (i) refineries are coastal some few are inland more refineries in West and North Africa few Central and East Africa (4) South Africa has many refineries Explanation Location and examples (ii) - near oilfields which are Raw material, e.g Harcourt, coastal or offshore Luanda, Brega - break of bulk locations for Break of bulk, e.g Mombasa, Dar-Es-Salaam, Durban imported crude. - market oriented where Market, e.g. Ndola, Mutare consumers are many. Addis Ababa, Johannesburg - wealthier and a large market so imports more crude. plastic, nylon, paints, car assembly, drugs, detergents, (iii) (2) (12)insecticides, jellies Inputs (i) limestone coking coal/coke iron ore hot air oxygen scrap iron

tourism/large areas reserved for tourism sedentarisation of nomads, resettlement

political boundaries

fencing

6.

(a)

(b)

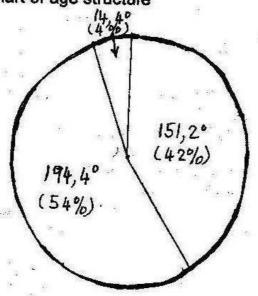
- hot gases
- slag (waste, fertilizer, road metal)
- pig iron

(4)

- (iv) Iron and Steel industry/named company, e.g. ZISCO
  - creation of employment
  - development of infrastructure, e.g. roads, railways
  - self sufficiency
  - source of forex
  - source of raw materials for other industries
  - development of social services, e.g. schools, hospitals
  - market for other industries/multiplier effects
  - development of settlements

(9) {13} [25]

7. (a) (i) Pie Chart of age structure



(3)

(ii) 34 + 6 = 40%/ 2:3 (66.6%)

(1)

(iii) largest dependency ratio in Southern Africa 46% followed by East Asia 40% and lastly North America. North America higher over 65. North America highest economic active group, followed by East Asia, Southern Africa smallest. Under 15 Southern Africa has the largest followed by East Asia and lastly North America.

(3) {7}

Solutions to rapid population growth taken also as solutions (b) to problems thereof: family planning/birth control measures - contraceptive use, male sterilization, late marriages, education/sex education/HIV-AIDS education/advertising to focus on the girl child/empowerment of women/ keeping girls longer at school, population policy enhancing the status of women, incentives, e.g. Government tax incentives. legalise abortion. **(7)** Population migration - movement of people from (c) (i) one place to another over a considerable period (2)of time. Refer to the map (figure 7) for the movements (ii) Large numbers of refugees from Western Sahara to Algeria. Sudan to Algeria. Sudan to Chad, Ethiopia, Uganda. Congo to Zambia Somalia to Ethiopia Other migrants to centres of economic activity. Nigeria to South Africa Botswana to South Africa, etc. (4) Push/Pull economic factors - better employment (iii) opportunities, for sale of goods/trade, job promotion, regional differences, resettlement, high/low standard of living, high cost of living, economic decline/ (5)  $\{11\}$ prosperity. [25] Reasons people look down on of rural communal life: (a) (i) life mainly centres on agriculture, which is taxing. lack of clean water supplies poor sanitation schools and clinics too far unavailability of goods poor infrastructure, roads, power supplies lack of entertainment

8.

- poor housing
- general poverty/low standard of living
- poor diet
- low level of education/literacy

(6)

# (ii) Advantages of rural life over urban life:

growing of own food, little use of money, fuel free, cleaner environment compared with urban ones, cheap/free accommodation, more nutritious/natural foods, cheap services, less crime, aesthetic beauty. (3)

(b) (i) 1900 - only Europe had cities with 1 million people 5 - 10 cities.

1940 - general increase in numbers, Europe and Asia dominate, North America, Africa and South America small numbers.

1980 - very rapid rise everywhere but more notable in Asia, North America, Africa and South America.

The table summaries the changes described above:

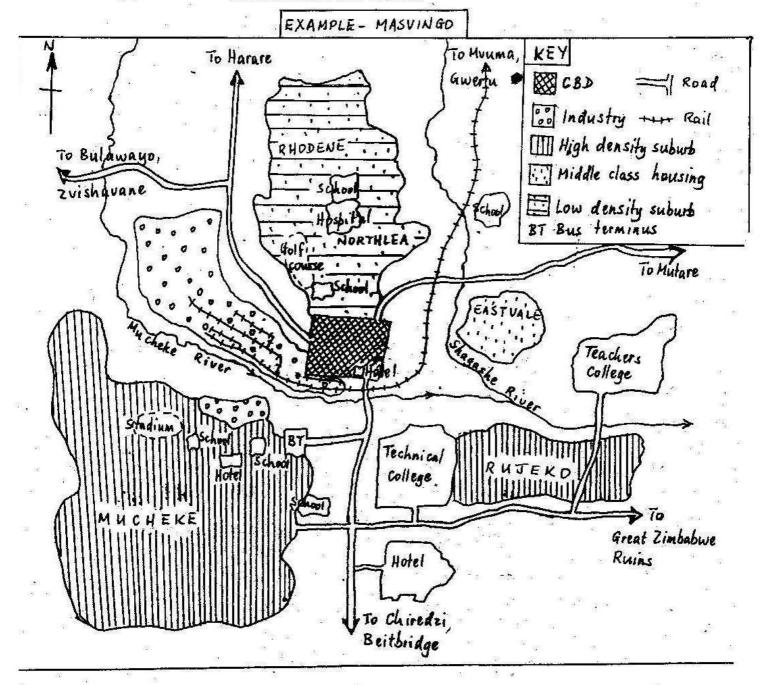
Year	Asia	South America	Europe	North America	Africa
1900	0	0	5	0	0
1940	15	5	25	5	5
1980	75	50	25	50	30

## (ii) Problems

- shortage of housing
- squatter settlements
- stress on transport
- over-crowdedness of buses, cars, etc
- longer waiting time
- sewage disposal problems, shortage of jobs, schools, clinics
- crime rate increases
- prostitution

(6) {10}

## (c) Urban settlement; land use ≠ zones



Other examples commonly used include Gweru, Marondera, Chegutu, Bulawayo, Harare, Mutare, Gutu-Mupandawana. (6) {6}

#### . (a) (i) <u>Regional: Description</u>

- More than 4 Lusaka, Harare, Lilongwe,
   Dar-es-Salaam, Harare the core
- less than 4, many from Harare, Lusaka
- few flights to Luanda

## Explanation

- Reasons lie in differences in city sizes
- Levels of economic/industrial activities
- Tourist attractions
- Per capita incomes

### Overseas: Description

- Harare and Lusaka dominate
- Harare flights to more parts of the world
- Lusaka to Europe and the East

### **Explanations**

- Conference centre, political stability
- More cosmopolitan cities
- Bigger economies
- Exports of flowers, beef
- More tourist attractions
- Many international conferences,
- Hotel

(6)

## (ii) New developments in modern passenger air travel

- executive classes, entertainment of the highest quality
- use of credit cards and visas
- money exchange on aircraft/telebanking
- longer direct flights without refueling
- terminals more luxurious, connecting flights more efficient
- larger planes
- less noise

(4)

(iii)	Airport: Factors	Reasons	1
1.5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>130</u>
	- flat land, open land	- cheaper and easier to build on	
	- away from residential areas	<ul> <li>avoid accidents/ air and noise pollution.</li> </ul>	
186 (SI)	- large land	- easy landing and taking off	
	Road: Factors	Reasons	
	-relief - along valleys - along watersheds	- flatter, cheaper, avoid mountains	
38 (8)	- through gaps	- fewer bridges, flatter good	
3 200		drainage	
	8	- direct, cheap, easier	
		(6)	
122(25) 192	1901 1801 180 180 183	{16}	
(b) (i)	Trade O: - retail/wholesale trade/		
	Reasons: - to sell and distribute g		
8	- to sell and market goo	(2)	.00
(ii)	more goods, cheaper goods	機工	
184	more forex, more employment, better	infrastructure	
	more industrialization, high living stan		
(iii)	- manufacture goods - chemicals		b
	- motor vehicles	(K)	
3	- fuels	22. on	
	- information technology		

{9} [25]

(3)

/9K RED-8POT-2248-02.NO

ange Grooves 142

(a) No way and moparementship

- skilled labour - export capital

6) The Lovers (+wo) 2