ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

GEOGRAPHY

4022/2

PAPER 2

NOVEMBER 2018 SESSION **2 hours 30 minutes**

Additional materials:
Answer paper

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

Section A (Physical Environment)

Answer at least **one** question from this section

1. a) i) Describe the formation of a rift valley. **[5]**

ii) State any **two** landforms associated with rift valleys. **[2]**

(b) Fig **1.1** below shows the plate boundaries and the distribution of volcanoes and earthquakes.

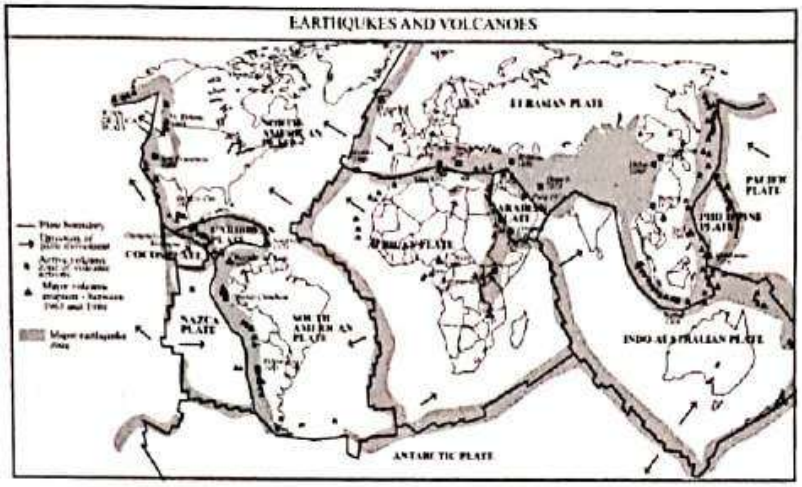


Fig. **1.1**

Explain the distribution of earthquakes and volcanoes shown in Fig. **1.1** above. **[7]**

c) Draw a labelled diagram of a composite volcano. **[4]**

d) Suggest employment opportunities that can be created in areas associated with vulcanicity. **[7]**

2. a) i) State any **two** conditions necessary for cloud formation. **[2]**

ii) Describe the characteristics of a cumulonimbus cloud and the weather associated with it. **[5]**

b) Fig **2.1** below shows the position of Cyclone Eline in 2000.

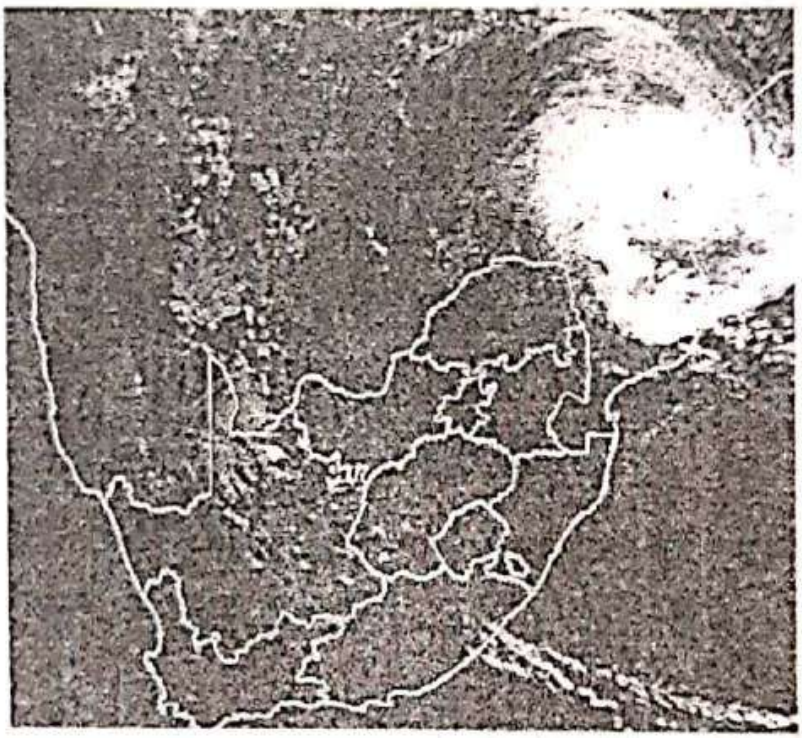


Fig. **2.1**

i) Describe how this cyclone might have been formed. **[5]**

ii) Outline the effects of the cyclone on the lives of people in Zimbabwe. **[6]**

c) Propose measures which should be taken to help the victims of floods. **[7]**

3. a) i) Define the Global Positioning System (GPS). [3]

ii) Identify any **four** Global Positioning System (GPS) receivers. [4]

b) Fig **3.1** below shows Electromagnetic radiation.

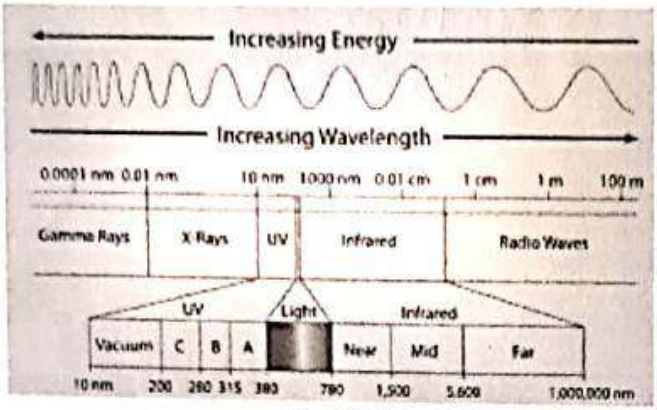


Fig. **3.1**

i) Explain the Electromagnetic radiation shown in Fig.**3.1** above. [7]

ii) Explain how electromagnetic radiation can be used to solve problems in the world. [4]

c) Identify any **three** Boolean logic and describe how each of them can be used in real life. [7]

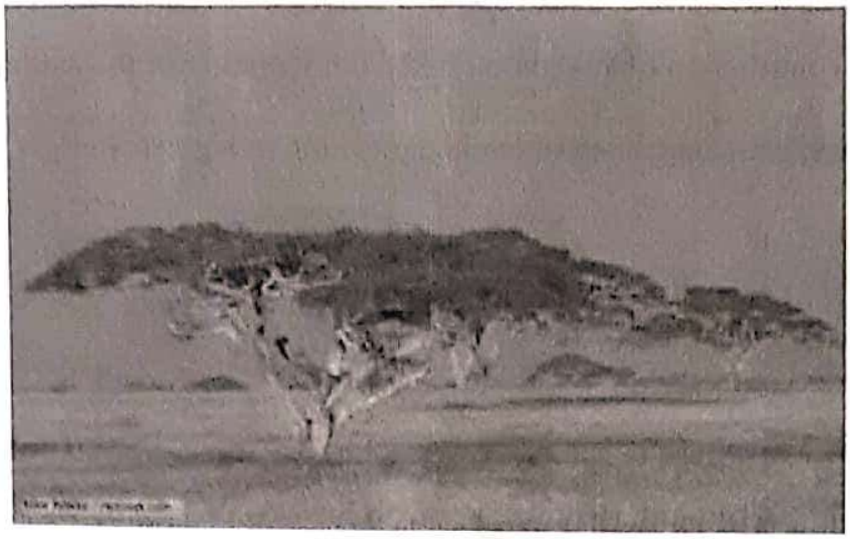
4. a) i) List any **four** components of soil. [4]

ii) Describe an income generating project that can be done using soil. [3]

b) Draw an energy flow diagram of a simple food chain. [4]

c) Photograph **4.1** below shows an ecosystem

Photograph **4.1**



i) Identify the features of the ecosystem shown. **[3]**

ii) Describe how the ecosystem can be used to generate income. **[4]**

d) Suggest measures to restore a degraded communal area. **[7]**

Section B (Economic Geography)

Answer at least **one** question from this section

5. a) Outline the contribution of vegetation in the conservation of the natural environment. **[7]**

b) Fig **5.1** shows the main causes of land degradation in a given area.

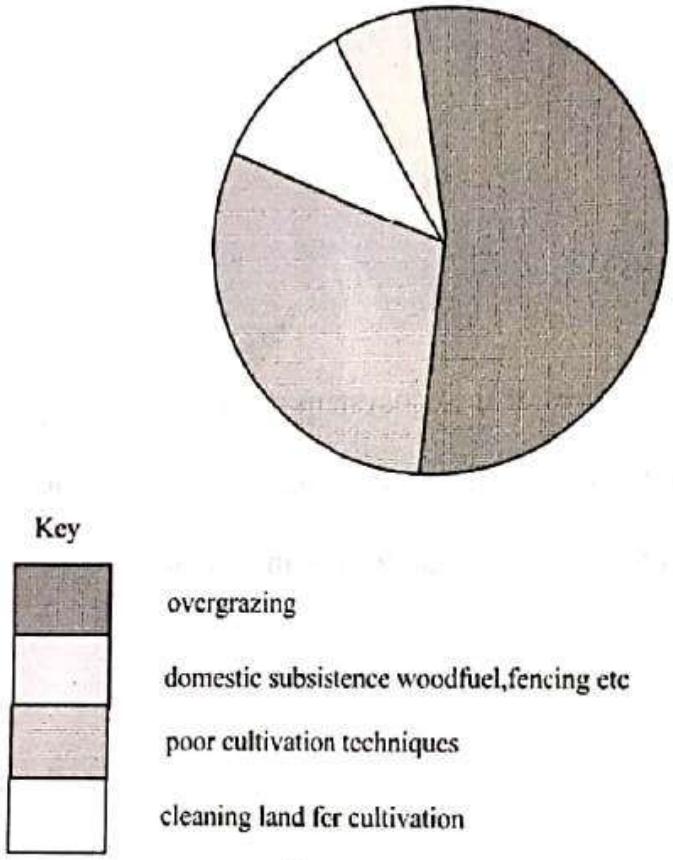


Fig.**5.1**

i) Describe causes of land degradation shown. **[4]**

ii) Choose any **two** causes and explain how each of them can lead to land degradation. **[7]**

iii) Suggest measures that can be taken to reduce land degradation. **[7]**

6. a) With reference to Zimbabwe, outline the importance of mining to its economy. [7]

b) Fig **6.1** below shows a mining method.

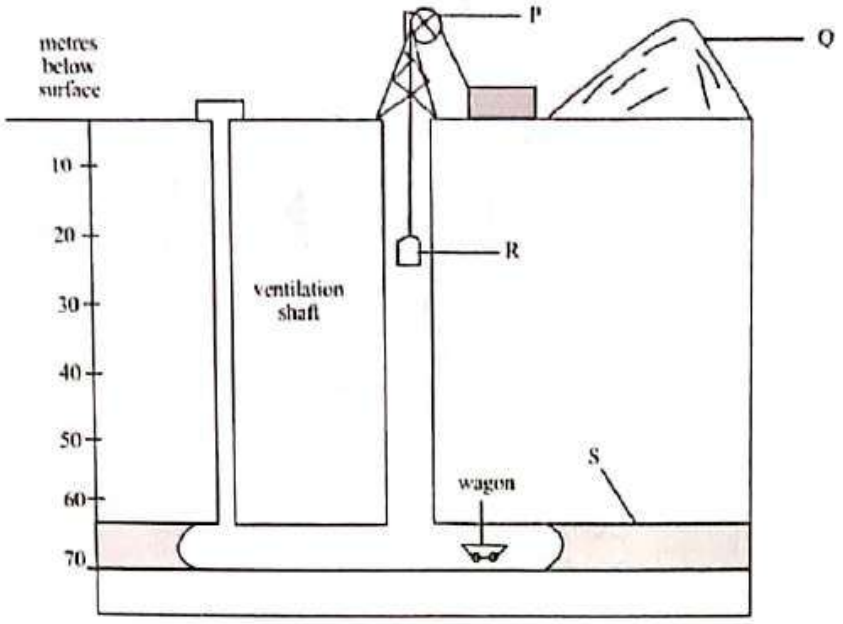


Fig **6.1**

i) State and explain the method of mining shown. [2]

ii) Name the features numbered P, Q, R and S. [4]

iii) State advantages and disadvantages of the method of extracting minerals shown. [5]

c) Suggest the measures which could be implemented for sustainable utilisation of mineral resources in Zimbabwe. [7]

b) Fig 7.1 below shows a farm in Zimbabwe.

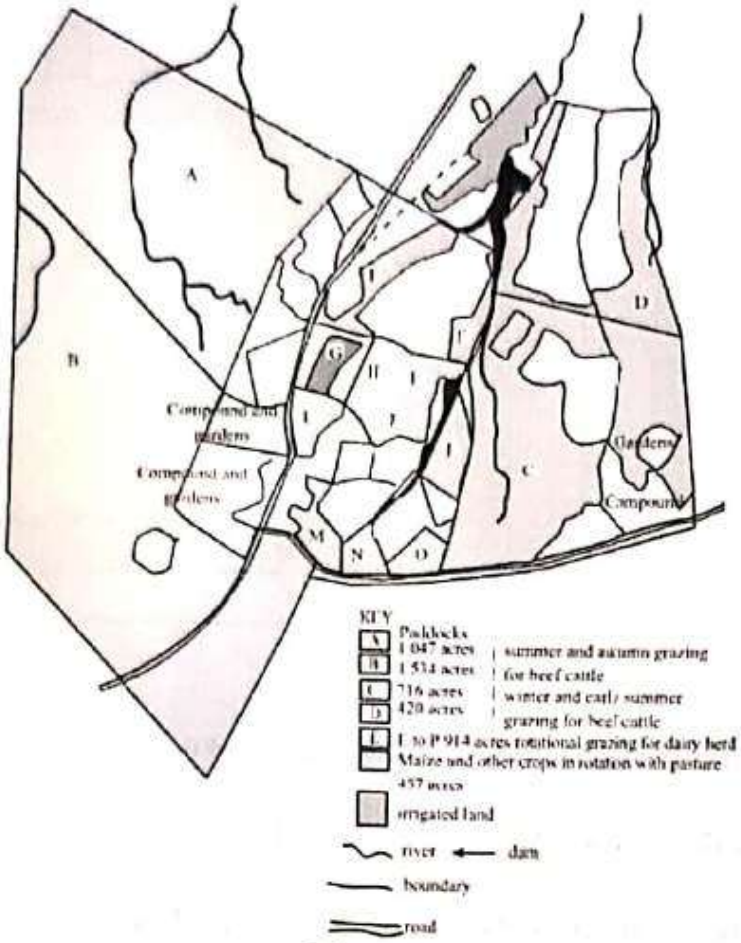


Fig 7.1

i) State with reasons, the farming system shown.

ii) Describe **two** conservation methods used on the farm.

iii) Outline **four** advantages of this farming system.

c) Suggest how crop farming can be sustainably carried out by resettled farmers in Zimbabw

TYPES OF INDUSTRY	NAME OF WORKER	WORKPLACE
	farmer	
		bank
secondary		
quaternary		laboratory

Copy and complete Table **8.1** shown above. [7]

b) An industrialist plans to set up a factory in Zimbabwe.

Inputs
Buildings - 500 m^2
Machinery and Equipment - mixers, ovens, trolleys, trays
Raw materials - flour, water
Labour force - skilled and unskilled
Transport - delivery vans

i) Name the industry which is likely to be set up. [1]

ii) State **four** other raw materials required by this industry. [4]

iii) Identify **two** processing and **two** outputs of the industry. [4]

iv) State two other factors the industrialist has to consider before choosing a suitable location for this factory. [2]

c) i) Propose quaternary industries you would establish to increase industrial production in Zimbabwe. [7]

Answer at least one question.

9. a) Table **9.1** below shows types of energy from different sources.

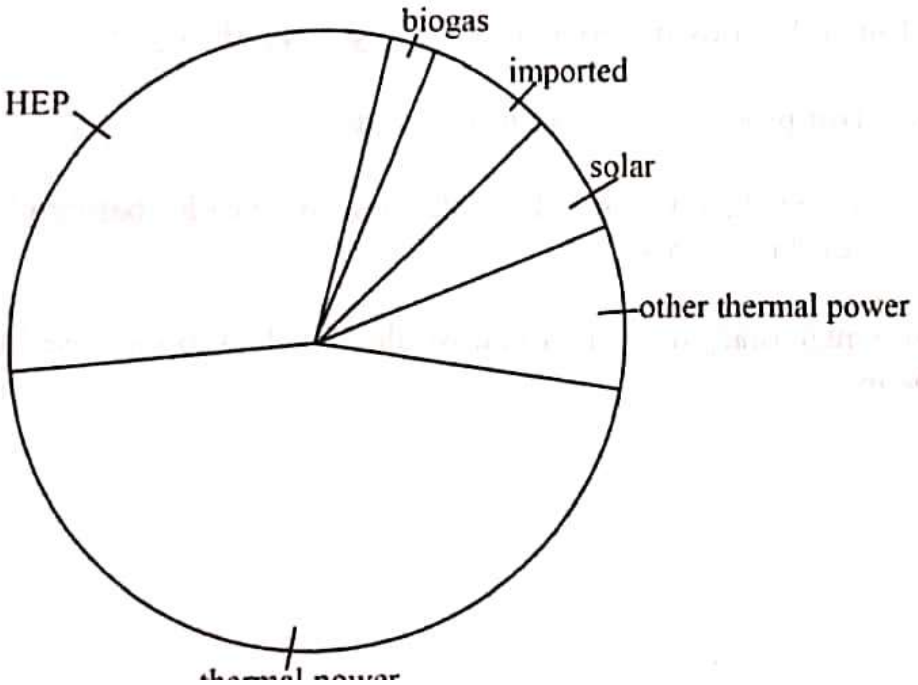
Table **9.1**

Types of energy	Sources of energy
solar	
hydro electric	
geothermal	
nuclear	
biogas	

i) Copy and complete Table **9.1** shown above [3]

ii) From the table above, state **one** renewable source of energy and **one** non renewable source of energy. [2]

b) Fig **9.1** shows the percentage contribution of various sources of energy.



power. [4

c) Suggest measures to improve availability of energy in your local area. [7

0. a) i) Explain the meaning of *Environmental Impact Assessment* (EIA) [2

ii) For a large scale dam project, outline the information you would include in your EIA report. [5

b) Photograph **10.1** below shows a form of environmental degradation.

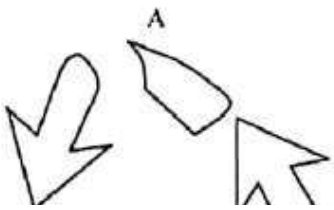
Photograph **10.1**

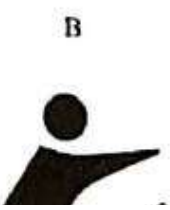
i) Describe the form of degradation shown. [2]

ii) State the forms of solid waste to be found at the site. [5]

iii) Suggest measures to reduce the degradation shown. [7]

(c) Fig **10.1 A** and **10.1 B** show labels on some products marketed in Zimbabwe.





b) Fig **11.1** below shows settlement hierarchy comprising of a village, city, hamlet, small tow isolated place, large town and cornubation.

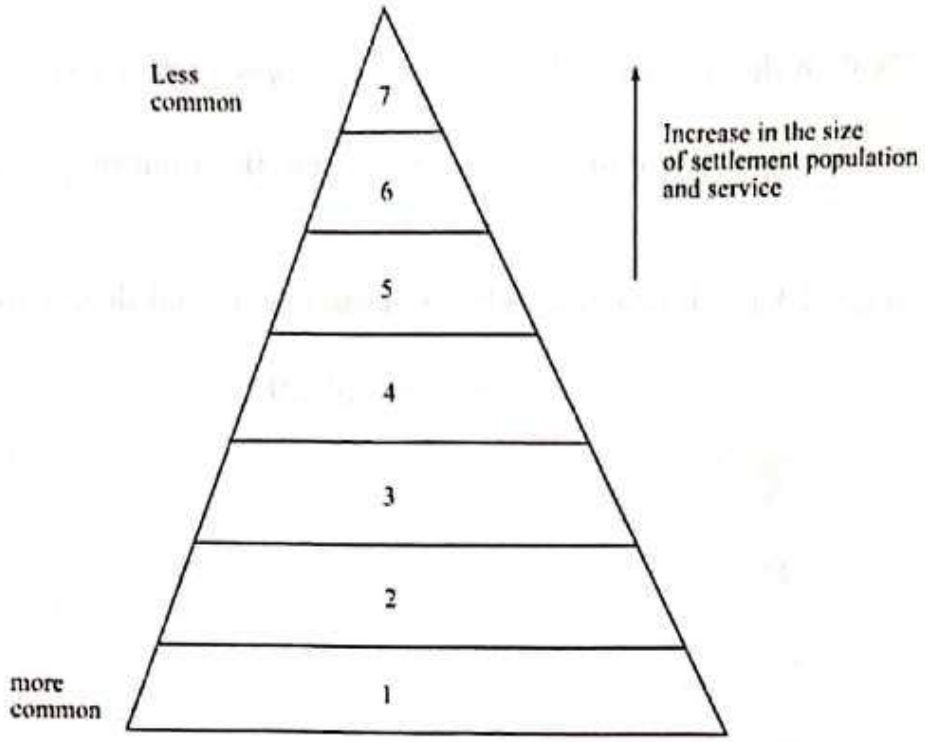


Fig **11.1**

b) i) Match the settlements with the hierarchy 1 to 7 as shown on Fig. **11.1** above.

ii) Describe the characteristics of the hierarchy shown.

c) i) Suggest the effects of rapid migration of people into urban areas.

ii) Propose the measures to reduce the effects stated in c(i) above.

ii) Outline **four** reasons for the formation of the trading blocks.

b) Fig **12.1** below shows some of the COMESA countries.

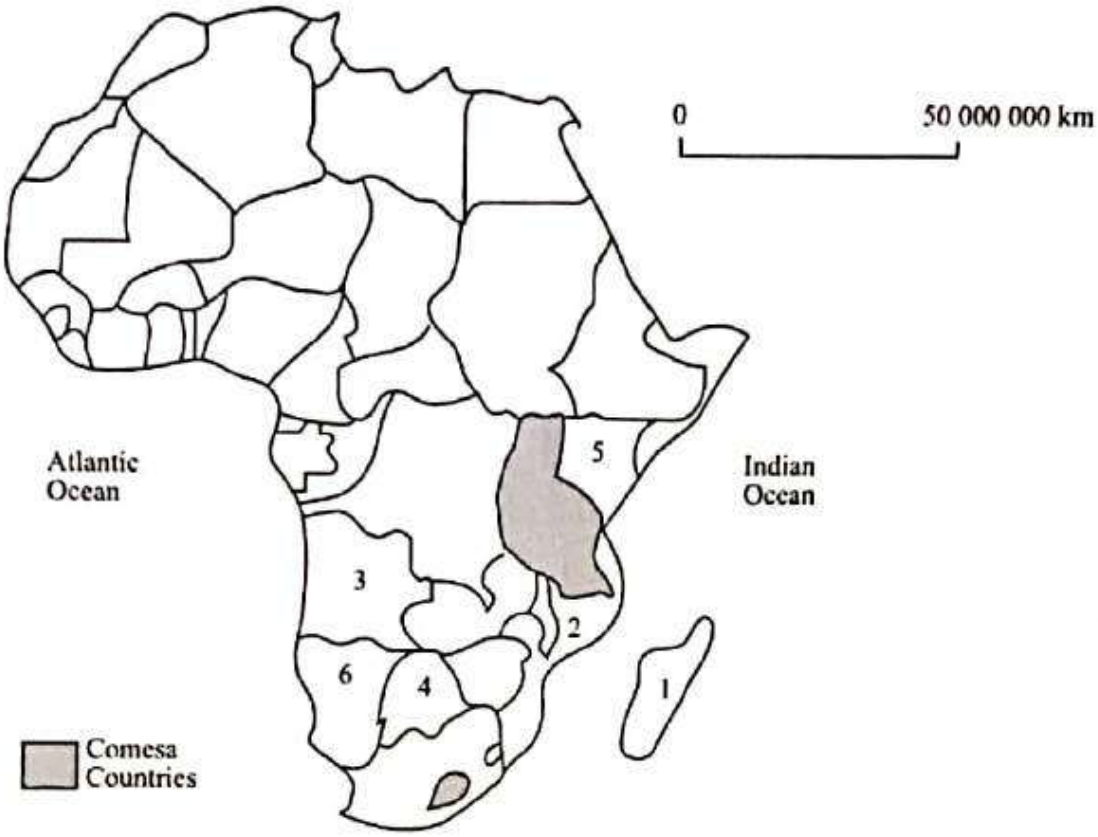


Fig **12.1**

i) Write COMESA in full. [

ii) Name the COMESA member countries numbered 1, 2, 3, 4 and 5. [

iii) Identify the member countries with ports. [

c) Suggest how local communities may improve the state of their roads. [