



EXAMINATIONS COUNCIL OF ESWATINI
Junior Certificate Examination

CANDIDATE
NAME

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CENTRE
NUMBER

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CANDIDATE
NUMBER

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GEOGRAPHY

527/02

Paper 2 Geographical skills

For examination from 2024

SPECIMEN PAPER

2 hours

Candidates answer on the question paper

Additional Materials: Calculator 1:50 000 Survey Map extract (enclosed).
Pencil Ruler
Plain paper Set square
Protractor

READ THESE INSTRUCTIONS FIRST

Write your name, Centre number and candidate number in the spaces provided.

Write in **dark blue** or **black** pen.

You may use a soft pencil for any diagrams, graphs, tables or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer **all** questions.

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

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

For Examiner's Use	
Question 1	
Question 2	
Question 3	
Question 4	
Total	

This document consists of **11** printed pages and **1** blank page.

SECTION A – MAP READING AND INTERPRETATION

Answer **all** questions in the spaces provided.

- 1 Study the map extract of Muchirakuenda (Zimbabwe). The scale is 1: 50 000.
Fig. 1 shows the positions of some features in the north east of the map extract.

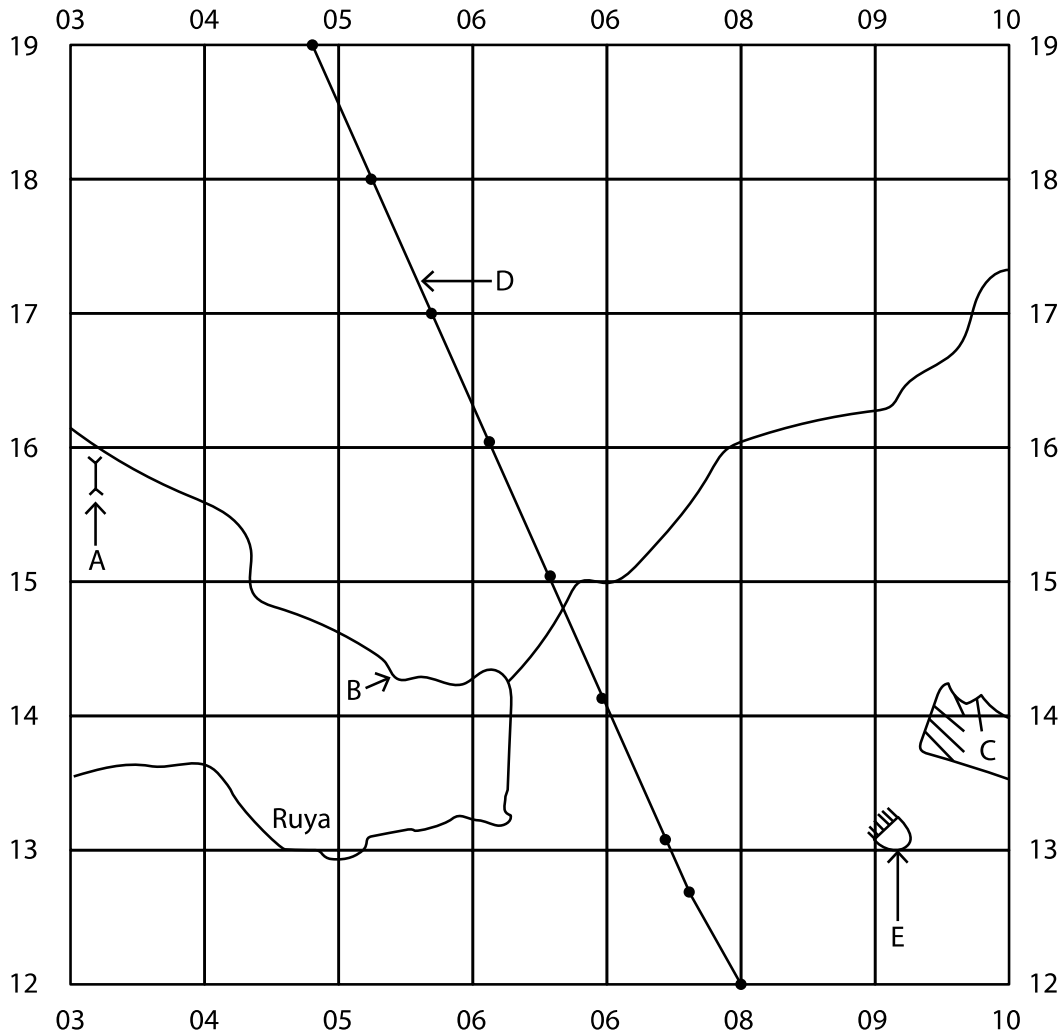


Fig. 1

(a) Using the map extract, identify the following features shown on Fig. 1:

- (i) feature **A** (0315);
..... [1]
- (ii) the name of river **B**;
..... [1]
- (iii) land use at **C** (0913);
..... [1]
- (iv) feature **D**;
..... [1]
- (v) feature **E** (0913).
..... [1]

- (b) (i) What is the statement scale of the map?
..... [1]
- (ii) What feature is located at grid refence 022087?
..... [1]
- (iii) State the height of the Nyota hill at grid square 9200.
..... [1]
- (c) Study the course of the Ruya river.
 - (i) What is the general direction of flow of the river east of easting 06?
..... [1]
 - (ii) Name any **two** natural features found along the river.
 - 1.
 - 2. [2]
- (d) Measure the bearing of the spot height at grid square 9605 from the spot height at 8902.
..... [1]
- (e) (i) Measure the distance along the gravel road from the bridge at 920052 to where the road ends in the south at 916000.
..... [1]
- (ii) The bridge is at 1280m and the south end of the road is at 1320m. Calculate the gradient between the two points.
.....
.....
.....
..... [2]
- (f) (i) Name the settlement pattern found at grid square 9316.
..... [1]
- (ii) Give **two** pieces of evidence to show that mining is carried out in the area near Rosa B.C.
 - 1
 - 2 [2]
- (iii) State **two** possible uses of the water from the dams in Muchirakuenda.
 - 1
 - 2 [2]

[Total: 20 marks]

SECTION B – RESEARCH SKILLS

Answer **all** questions in the spaces provided.

2 (a) A group of students investigated the reasons for the changes in speed across a meander in the Great Usuthu river. They decided to test the following hypothesis: “*The surface velocity of a river varies across a meander*”. The teacher suggested that before starting the investigation they should conduct a pilot survey.

(i) Define a *pilot survey*.

.....
..... [1]

(ii) Give **two** advantages of a pilot survey.

1
2 [2]

(b) To investigate the hypothesis, the students made some measurements across a meander.

(i) List **two** pieces of equipment the students used to measure the speed of the river.

1
2 [2]

(ii) The students measured the surface speed of the river at four sample sites, **A, B, C** and **D** across the meander as shown in Fig. 2. The results of their measurements are shown in Table 1.

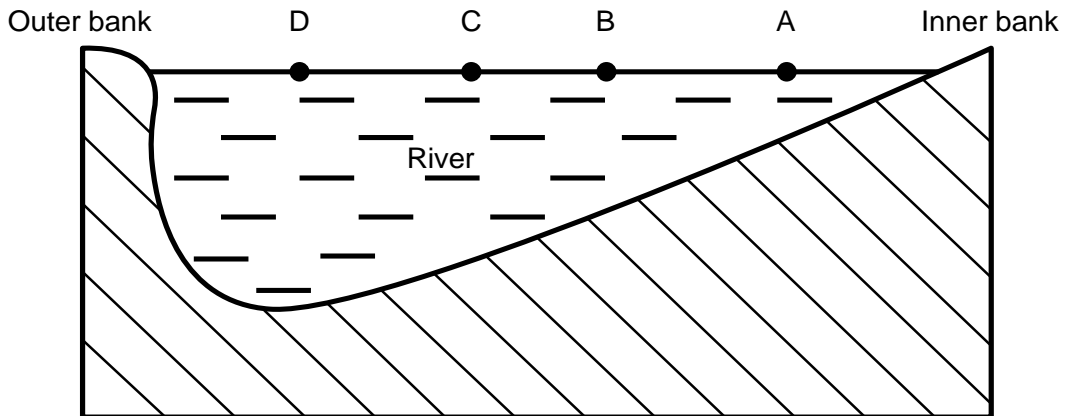


Fig. 2

Table 1

Sample site	Surface velocity (cm/second)
A	20
B	40
C	60
D	73

Use information from Table 1 to complete the bar graph, Fig. 3, for Site A and Site C.

[2]

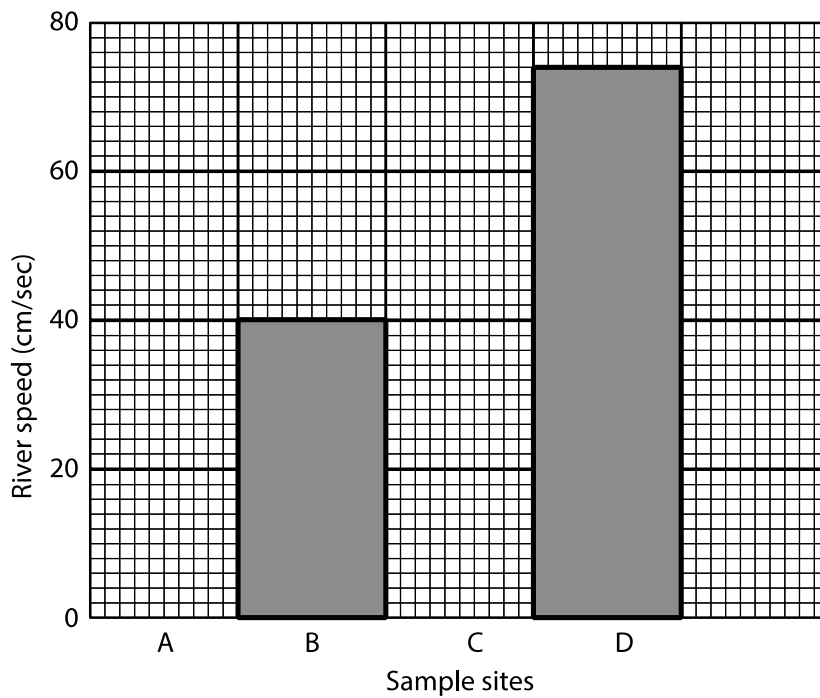


Fig. 3

(iii) Write a conclusion to the hypothesis, “*The surface velocity of a river varies across a meander*”. Use evidence from Table 1 and Fig. 3.

.....

.....

.....

.....

.....

[3]

[Total: 10 Marks]

SECTION C – PHYSICAL GEOGRAPHY

Answer **all** questions in the spaces provided.

3 (a) Study Fig. 4, which shows two instruments used at a school weather station.

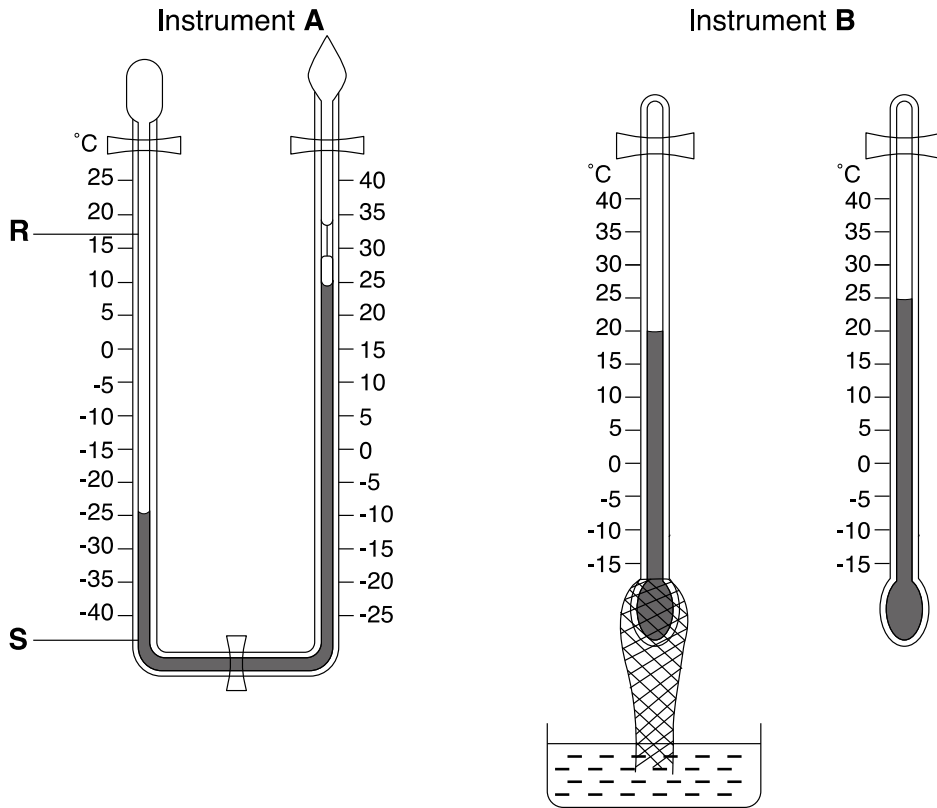


Fig. 4

(i) Identify instruments **A** and **B**.

A

B [2]

(ii) State the element of weather each of the instruments measure.

A

B [2]

(iii) Name the liquids **R** and **S** in instrument A.

R

S [2]

(b) Study Fig. 5, which shows a wooden box kept at a weather station.



Fig. 5

(i) Give the name of the box shown in Fig. 5.

..... [1]

(ii) Using Fig. 5, describe **three** features of the box.

1

2

3 [3]

(c) Study Fig. 6, which shows two types of physical weathering.

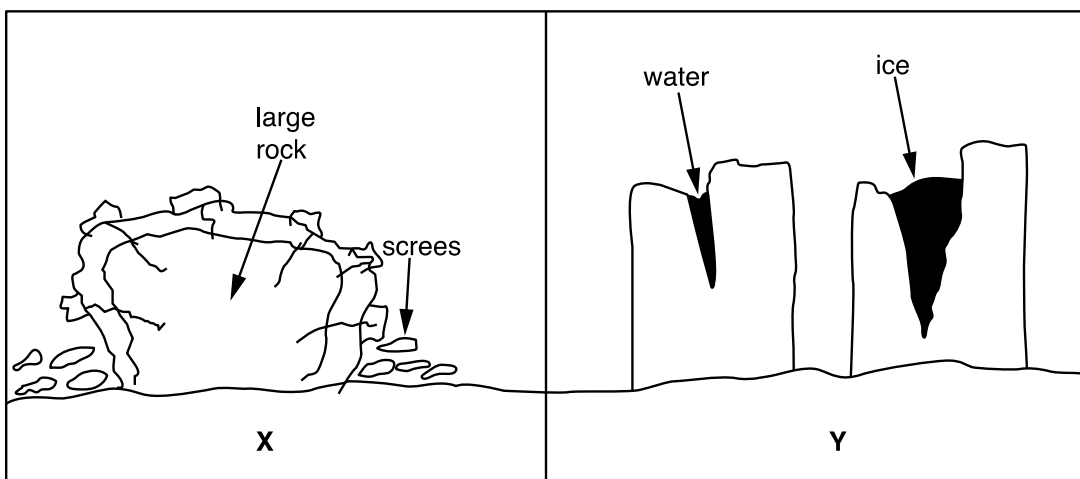


Fig. 6

(i) Define the term *weathering*.

.....

..... [1]

(ii) Identify the types of physical weathering shown as **X** and **Y** in Fig. 6.

X

Y [2]

(iii) State **two** reasons why chemical weathering is more active in tropical regions.

1

2 [2]

(d) Study Fig. 7, which shows a type of volcano.

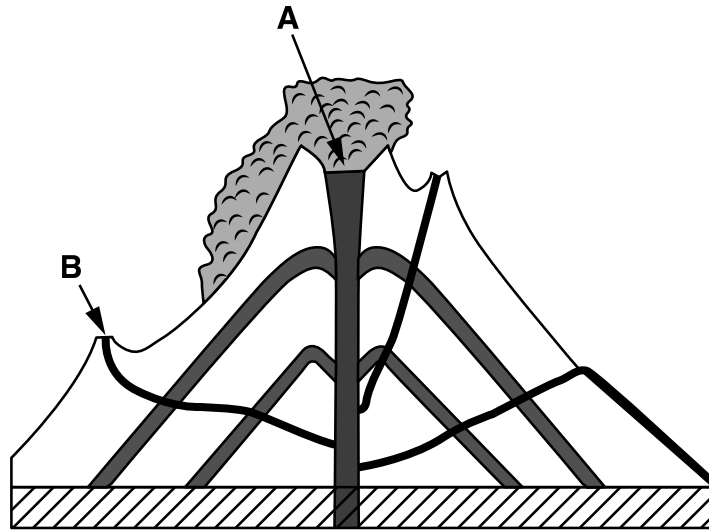


Fig. 7

(i) Name the type of volcano shown in Fig. 7.

..... [1]

(ii) Identify the parts labelled **A** and **B** in Fig. 7.

A

B [2]

(iii) State **two** advantages of volcanic activity.

1

2 [2]

[Total: 20 marks]

SECTION D – POPULATION AND SETTLEMENTS

Answer **all** questions in the spaces provided.

4. (a) Study Fig. 8 which shows four possible sites, **A**, **B**, **C** and **D** for the location of a new farming village.

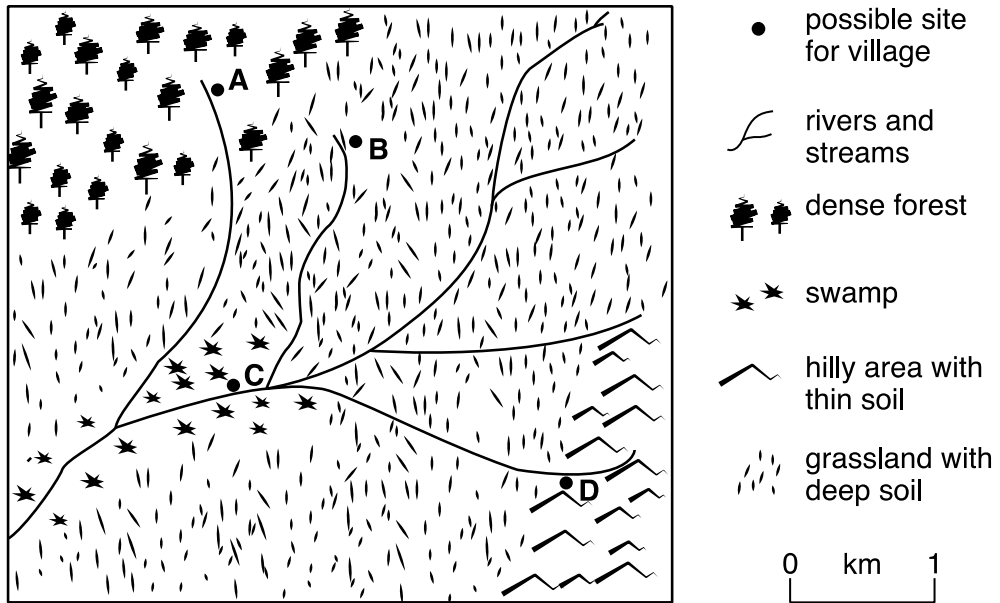


Fig. 8

- (i) Which is the best site for the location of the village?
 [1]
- (ii) Give **two** reasons for the site you have chosen.
 1
 2 [2]
- (iii) Giving a different reason in each case, state why you rejected the other sites.
 Site
 Reason
 Site
 Reason.....
 Site
 Reason [3]

(b) Study Photograph A, which was taken in an urban area.



Photograph A

(i) Name the part of an urban area where this photograph was taken.

..... [1]

(ii) Using Photograph A, describe **two** features of the buildings.

1

2 [2]

(iii) State **two** problems associated with this part of an urban area.

1

2 [2]

(c) Study Fig. 9, which shows stages in population growth

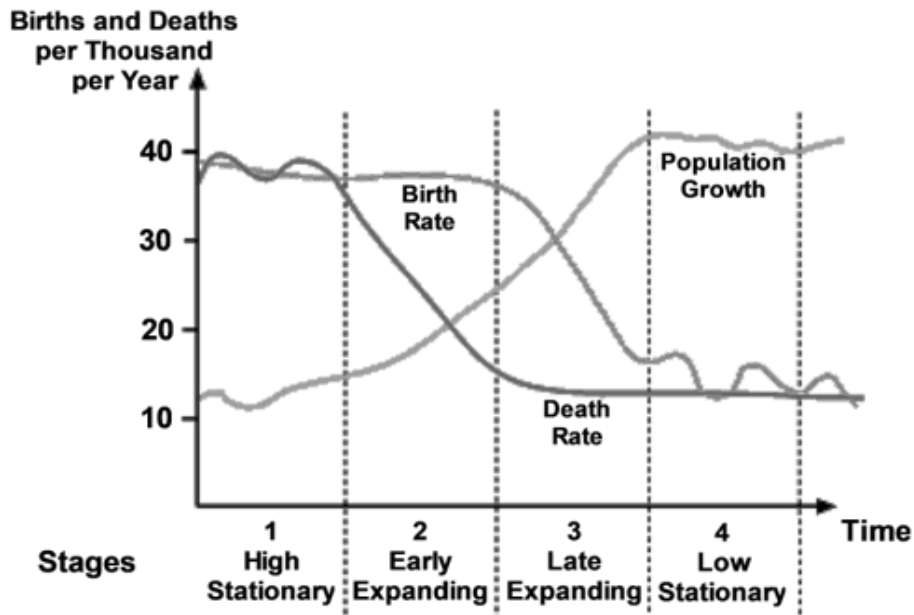


Fig. 9

(i) What is the name of the graph shown in Fig. 9?
..... [1]

(ii) Using Fig. 9, identify a stage which shows:
A a rapid decline in birth rate;
.....
B a rapid growth in population.
..... [2]

(iii) Describe **three** characteristics of stage 2.
1
2
3 [3]

(d) (i) State **two** reasons why birth rates are high in LEDCs.
1
2 [2]

(ii) Suggest **two** ways in which birth rates can be reduced in LEDCs.
1
2 [2]

[Total: 20 marks]

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