

273/1

Geography

Paper 1

Nov. 2023

Time: 2 Hours

WEST ANKOLE DIOCESE – CHURCH OF UGANDA

S.4 2024 ENTRANCE EXAMINATIONS

GEOGRAPHY

PAPER 1

TIME: TWO HOURS

INSTRUCTIONS TO CANDIDATES

This Paper consists of two Sections A and B.

Write answers in spaces provided.

Do not write in the margin to the right. It's for the Examiner's use.

The Invigilator will tell you when you have 10 minutes to end of the examination.

The marks for each Section are shown in brackets; use this to guide you on how much time to spend on each question.

Use a Calculator and Mathematical instruments where applicable.

UGANDA CERTIFICATE OF EDUCATION
GEOGRAPHY EXAMINATION 273/1
PAPER ONE
2 HOURS

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1. This paper consists of two sections: A and B
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6. Use a calculator and mathematical instruments where applicable.

ADVICE

1. Read the whole question before answering especially if there is more than one part of the question.
2. If you finish early, check your answers.

Section A: Short Response Questions (40mks)

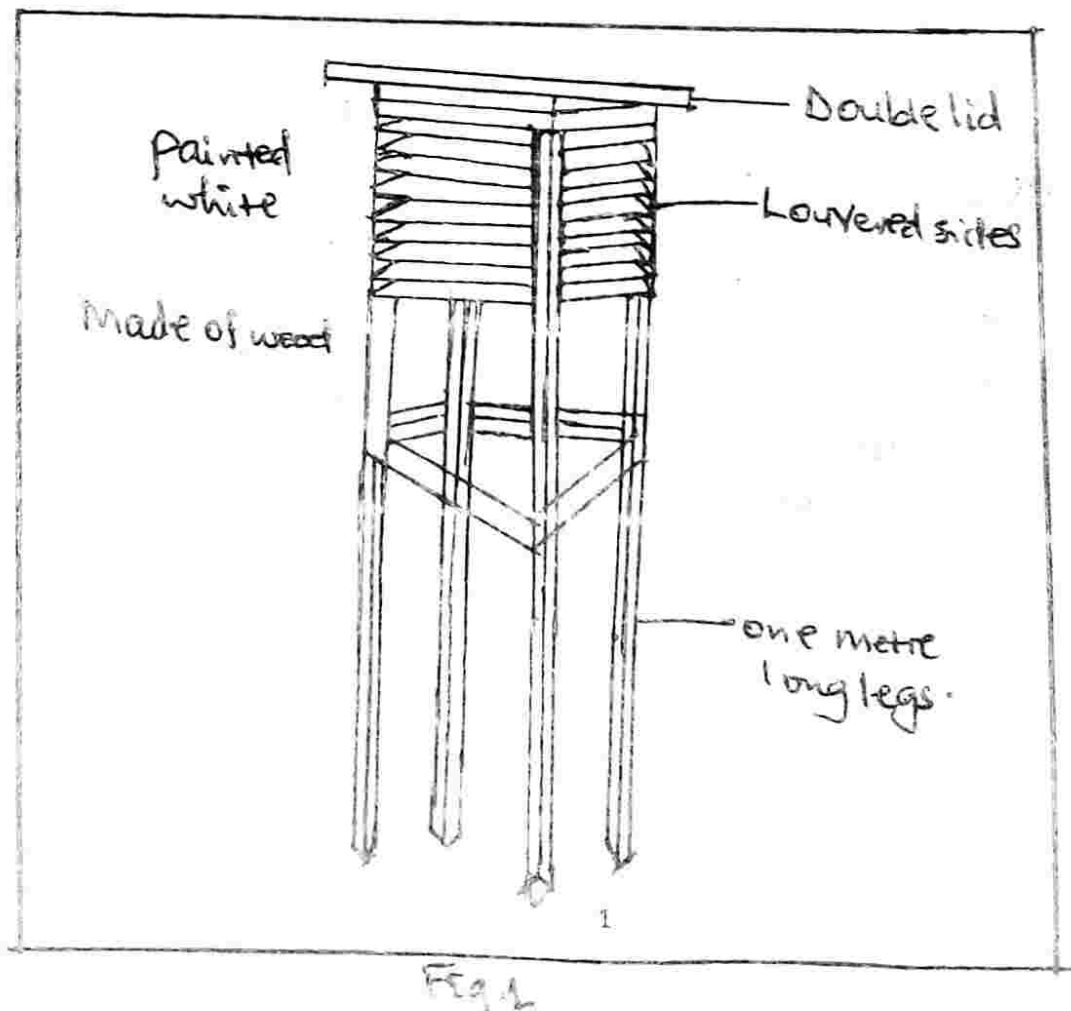
Answer all questions in this section.

Section B: Skill-Based Questions (60mks)

Answer all questions in this section.

Section A

1. Figure 1 shows a Stevenson screen, the container used to store instruments at a weather station. Features of the design have been labelled.



- a) Choose two of the features labelled in figure 1. For each of the features you have chosen, explain why the Stevenson screen has been designed in this way.

Feature

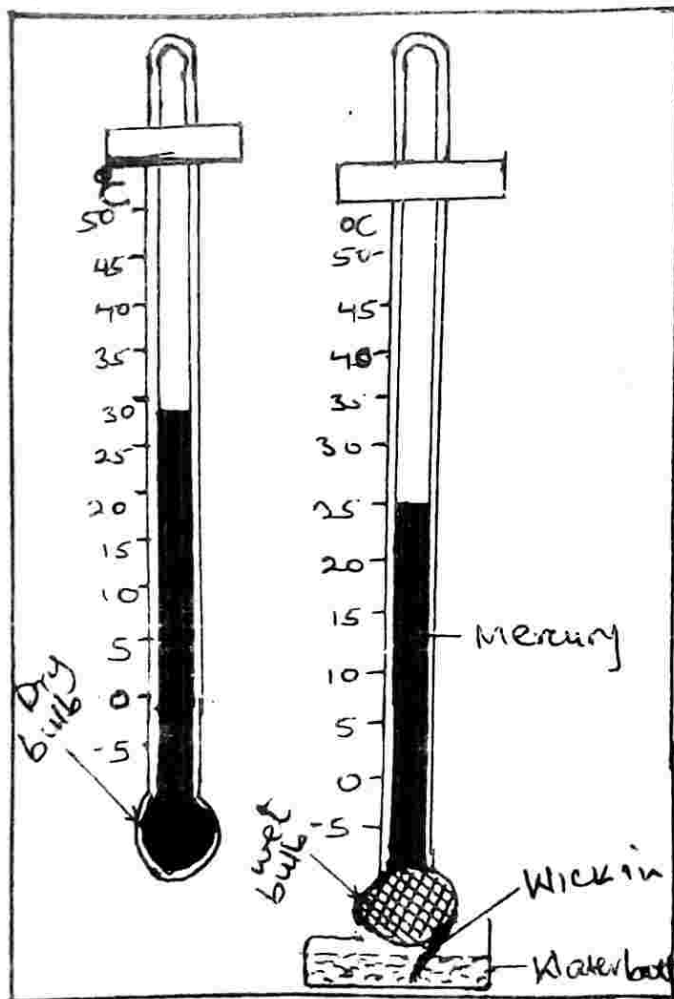
Explanation

Feature

Explanation

04mks

- b) One of the instruments stored in the Stevenson screen is the hygrometer (wet and dry bulb thermometers) this is shown in fig. 2 below. The readings of the wet and dry bulb thermometers are used to calculate the relative humidity using the conversion table shown below.



Difference between wet and dry bulb thermometer readings (°C)						
	0	1	2	3	4	5
Dry bulb	%	%	%	%	%	%
22°C	100	90	82	73	65	60
24°C	100	91	82	74	68	62
26°C	100	91	83	75	67	64
28°C	100	91	83	76	68	65
30°C	100	92	84	77	68	66
32°C	100	92	85	78	70	68

- i) State the readings of the wet and dry bulb thermometers in figure 2.

Wet bulb 01mk

Dry bulb 01mk

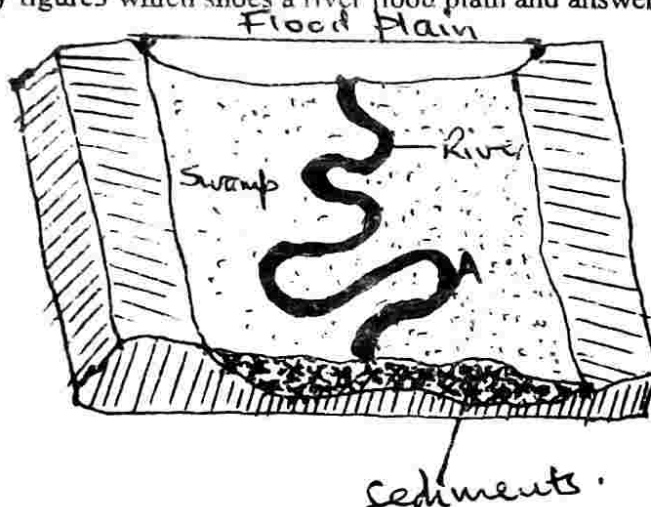
- ii) Calculate the difference between the wet and dry bulb thermometer readings. 01mk

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- iii) Using your answers to b (i) and (ii) and the table aside, determine the relative humidity.
01mk

- c) Explain one way in which people in your community use the knowledge of relative humidity in carrying out their activities. 02mks

2. Study figure3 which shows a river flood plain and answer the questions that follow.



- a) Explain how an ox-bow lake may form at a place marked A. 04mks

- b) Imagine your family migrated and settled on the flood plain shown in figure3. Explain disadvantages which would be associated with your new area of residence. 04mks

3. East African countries have seen a major increase in tourist arrivals for both business and leisure purposes. Explain two reasons for the rapid development of the tourism industry in East Africa.

04mks

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4. In the past 20 years, Uganda has lost 12% of its forest cover. Explain two problems which have resulted from the great reduction in the country's forest cover.

04mks

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5. Choose a local manufacturing or processing industry you have studied. Explain two ways in which it benefits the local community in the area;

Name of the industry

01mk

Benefits of the local community

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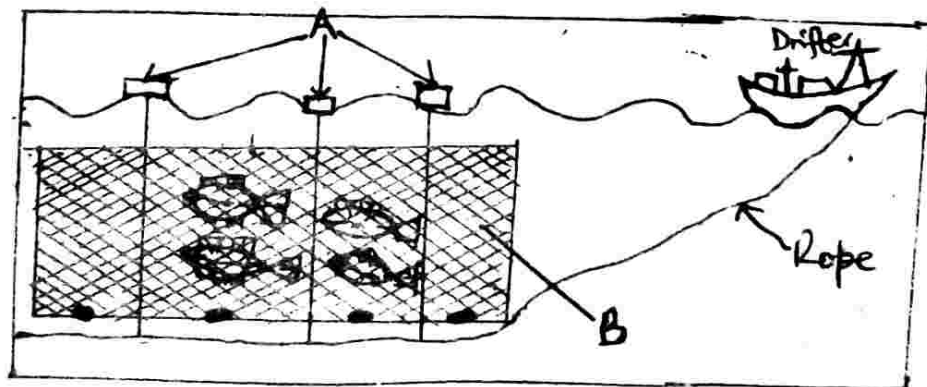
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03mks

6. Study figure 4 below showing a modern method of fishing. Use it to answer the questions which follow.



- a) Name the parts marked
- i) A 1mk
- ii) B 1mk
- b) Give two reasons why you may recommend the fishing method shown in figure 4 to be used by the fishermen in East Africa. 04mks

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- c) For a named fishing ground you have studied, explain four problems facing the fishing industry in East Africa. 04mks

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SECTION B

7. Study the (UGANDA) map extract of BULISA (insert) provided and answer the following questions.
- a) What is the scale of the map? 1mk
- b) State the six – figure grid reference of the borehole north of Kibambura. 1mk
- c) Calculate the approximate area of Lake Albert. 02mks

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- d) Give two reasons why the Eastern part of Bulisa is dry. 04mks

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- e) Describe the relief of the area shown on the map. 04mks

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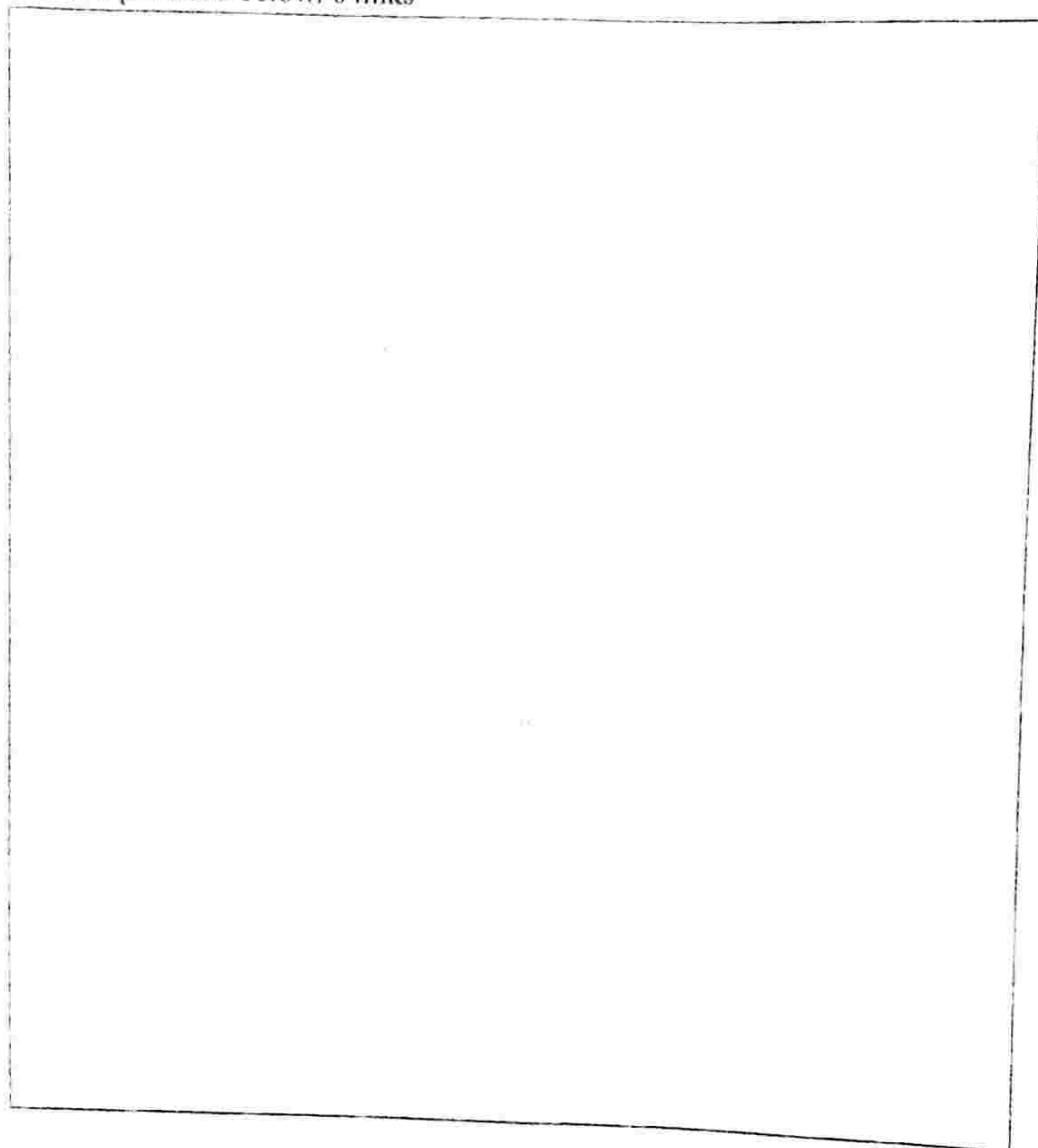
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Draw a sketch map of Bulisa, and on it, mark and name; 04mks

- i) Lake Albert
- ii) Loose surface road
- iii) County boundary

Use the frame provided below. 04mks



- f) Suppose the local government of Bulisa district has given you a contract to lay a water pipe line along the loose surface road from pipe line along the loose surface road from (grid reference 243319) to grid reference 195413) 02mks
- i) Estimate the length of the pipe 02mks
 - ii) Estimate the total cost of piping it each kilometer of the pipe line costs 2 million Uganda shillings.

8. Look at figure 5 below, a photograph taken from an area in east Africa and answer the questions that follow.



Fig.5

- a) Identify the type of:
- i) Photograph figure 5 is 1mk
 - ii) Relief shown in the photograph 1mk
 - iii) Vegetation in the foreground. 1mk
 - iv) Vegetation in the back ground of the photograph. 2mks
 - v) Land use shown in the foreground of the photograph. 1mk
- b) Suggest two ways in which the area shown in the photograph can be improved so that it can attract tourists. 04mks
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- c) Explain three likely benefits tourism might bring to the local community in the area where the photograph was taken. 06mks
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- d) Select an area of your choice, identify the physical and human tourist attractions. 1mk
- Area
- Attractions
- 4mks

SECTION C: Extended Response Questions (20mks)

Answer one Question from this Section.

9. Table below shows the imports of goods and services by value (in million us dollars) from countries X and Y. Use the table to answer the questions which follow.

Country	2006	2007	2008	2009	2010
X	2829	3581	4618	5557	5833
Y	8514	10,268	12,719	11,196	12,192

Adapted from Africa Development indicators 2012/13

- a) Draw a graph to show the value of imports between 2006 and 2010 for countries X and Y. 10mks
- b) Using the graph you have drawn in (a) above. Describe the trend of imports between 2006 and 2010 for country Y. 04mks
- c) For nearly over 20 years now, Uganda is trying to develop industries which process agricultural, minerals and other primary products. The main aim is to improve the country's participation in international trade. Explain how this might affect the country's export and import trade. 06mks
10. All nations around the world shall be affected by the impact of climate change. However, the poorest nations will be hit the hardest. Time is now for African countries to act and reduce the impact of climate change. All countries regardless of their level of development, must look to reduce the amount of carbondioxide they send into the air. We must prevent further warming and reverse the trend.
- a) Describe the signs which show that climate change is taking place in Uganda. 06mks
- b) Explain the causes of climate change. 06mks
- c) Using the lessons learnt from the tree planting project in which you have taken part; explain why planting trees alone might not reduce the effects of climate change. 08mks
11. a) Distinguish between a volcanic mountain and a block mountain. 04mks
- b) Using diagrams, explain how the Block mountains in East Africa were formed. 08mks
- c) Ben and his family live on one of the slopes of a block mountain in Kenya. Explain the likely problems faced by Ben's family as a result of living in such an area. 08mks

END