

NAME: _____ **INDEX NO:** _____
CANDIDATE'S SIGNATURE: _____ **DATE:** _____
SCHOOL: _____

312/1
GEOGRAPHY
Paper 1
JULY 2023
2 ¾ Hours

SAMIA SUB-COUNTY JOINT EXAMINATION
Kenya Certificate of Secondary Education
GEOGRAPHY
Paper 1
2 ¾ Hours

Instructions to candidates

- a) This paper has two sections: A and B
- b) Answer all the questions in section A
- c) Answer question 6 and any other two questions from section B
- d) All answers must be written in the answer booklet provided
- e) This paper consists of 5 printed pages
- f) Candidates should check the questions paper to ascertain that all the pages are printed as indicated and that no questions are missing

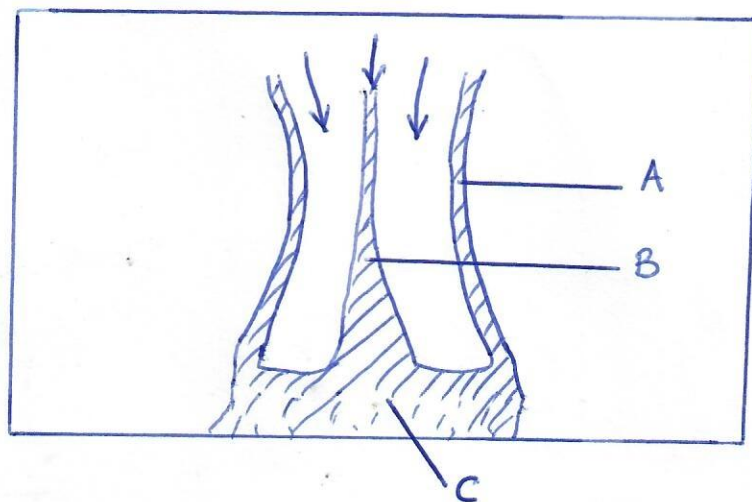
FOR EXAMINERS'S USE ONLY

SCORE SHEET	MAX. MARKS	CANDIDATE'S SCORE
SECTION A		
QUESTION 6		
QUESTION 7		
QUESTION 8		
QUESTION 9		
QUESTION 10		
TOTAL		

SECTION A

Answer ALL the questions in this section

1. a) Name two branches of Geography (2 marks)
b) Give three reasons why it is important to study geography in secondary schools (3 marks)
2. a) What is due point (2 marks)
c) State three factors that influence atmospheric pressure (3 marks)
3. a) Give three human causes of earthquakes. (3 marks)
d) Give two major earthquake zones of the world (2 marks)
4. a) Identify two sources of underground water. (2 marks)
e) State three conditions that favour the formation of artesian well. (3 marks)
5. a) Define the term ice berg (2 marks)
f) The diagram below shows types of moraines. Identify the moraines labeled A, B and C. (3 marks)



SECTION B

Answer Question 6 and any other two questions from this section

6. Study the map of Kisumu East 1:50,000 (sheet 116/2) provided and answer the following questions.

Use the marginal information

- (a) (i) Give the longitudinal extent of the area covered by the map (1 mark)
(iii) What is the vertical interval of the area covered by the map (1 mark)
(iv) Give the magnetic declination of the map (1 mark)
- (b) (i) Name three human made features in the grid square 0193 (3 marks)
(ii) Calculate the area of Kisumu town, Give your answer in kilometer square. (2 marks)
- (c) Describe the relief of the area covered by the map. (4 marks)

- (d) (i) Draw a cross-section along Northing 96 between Easting 95 and 02 (2 marks)
 (Use scale 1cm represents 20 metres)
 On the cross-section show: -
- Bound surface road (1 mark)
 - River Awach (1 mark)
 - Plantation (1 mark)
- (ii) Calculate V.E (2 marks)

- (e) Citing evidence, give three social functions of Kisumu town. (6 marks)

7. (a) (i) What is a mineral (2 marks)

- (ii) Describe the following characteristics of minerals

- Lusture (2 marks)
- Colour (2 marks)
- Density (2 marks)

- (b) Briefly describe three types of sedimentary rocks. (6 marks)

- (c) Students of Namunyweda carried out a field study on rocks around their school.

- (i) State a reason why they carried

- A hammer (1 mark)
- Polythene bag (1 mark)
- Litmus paper (1 mark)

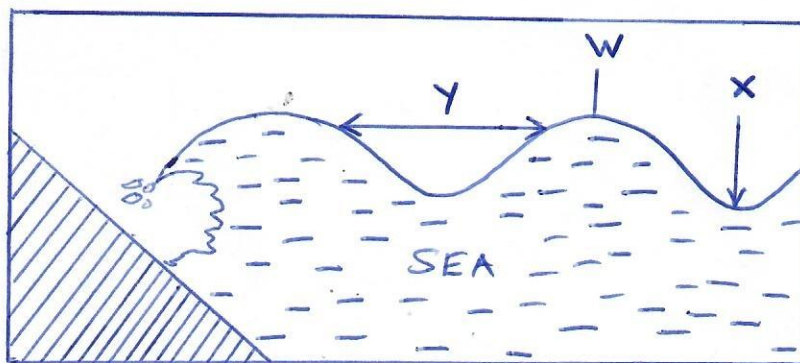
- (ii) State four follow-up activities they engaged in (4 marks)

- (d) Explain the significance of rocks under the following headings

- (i) Tourism (2 marks)
- (ii) Water (2 marks)

8. (a) (i) State the two causes of waves in the oceans. (2 marks)

- (ii) The diagram below shows parts of a wave.



Name the parts marked W, X and Y. (3 marks)

- (b) (i) Name three types of submerged coasts. (3 marks)
(ii) Explain three processes involved in marine erosion. (3 marks)
- (c) Using well labeled diagrams, explain how the following coastal features are formed.
(i) Stacks (4 marks)
(ii) Beaches (4 marks)
- (d) State three ways which Kenya benefits from her coastal features. (3 marks)
9. (a) (i) Define the term soil. (2 marks)
(ii) Name two types of soil according to texture. (2 marks)
- (b) Briefly explain how the following factors influence soil formation.
(i) Climate (4 marks)
(ii) Living organisms (4 marks)
- (c) (i) Differentiate between soil profile and soil catena (2 marks)
(ii) List three processes which influence the development of soil profile. (3 marks)
- (d) Explain how the following human activities lead to soil erosion.
(i) Continuous ploughing (2 marks)
(ii) Cutting down trees (2 marks)
- (e) Identify four consequences caused by severe soil erosion in an area. (4 marks)
10. (a) What is intrusive vulcanicity? (2 marks)
- (b) (i) Explain how a dyke is formed. (4 marks)
(ii) Apart from dykes name three other intrusive volcanic features (3 marks)
- (c) State four characteristics of a composite volcano (4 marks)
- (d) You intend to conduct a field study on volcanic features
(i) State the objectives of your study (2 marks)
(ii) State four reasons why you should conduct a pre-visit (4 marks)
- (e) Explain three effects of vulcanicity to human activities. (6 marks)