

The Kenya Certificate of Secondary Education

GEOGRAPHY Paper 1 $2\frac{3}{4}$ hours

Instructions to candidates

- (a) This paper contains 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 7 printed pages.
- (f) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

, separation A

Answer all the questions in this section.

	Y .	
1.	(a) What is an isobar?	(1 mark)
	(b) (i) Name one method used for measuring cloud cover.	(1 mark)
	(ii) State two characteristics of cumulonimbus clouds.	(2 marks)
2.	(a) State the period within which each of the following planets complete a revolution around	l the sun.
	(i) Mereury.	(1 mark)
	(ii), Earth.	(1 mark)
	(b) Give two reasons why the earth is flattened at the poles and bulged at the equator.	(2 marks)
3&	(a) State three causes of earthquakes.	(3 marks)
Note	(b) Name two major earthquake zones of the world.	(2 marks)
£0 ⁵ 4.	The tables below represent temperature and rainfall for two stations \mathbf{X} and \mathbf{Y} . Study them an	d answer

4. The tables below represent temperature and rainfall for two stations X and Y. Study them and answer the questions that follow.

Months	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature (⁰ C)	27	27	27	26	25	25	25	26	27	27	26	26
Rainfall (mm)	65	85	150	250	225	125	75	75	75	112	125	125

Station X

Months	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature (⁰ C)	27	28	27	27	26	24	23	23	24	24	26	27
Rainfall (mm)	68	81	142	286	187	28	28	28	36	55	68	78

Station Y

(a) (i) Calculate the annual range of temperature for the stations X and Y .	(2 marks)
(ii) Calculate the annual rainfall for station Y .	(1 mark)
(b) Describe the characteristics of rainfall for station X .	(3 marks)

5. (a) Name **two** types of boundaries associated with plate tectonics theory. (2 marks) (b) State **four** evidences that support the continental drift theory. (4 marks)

SECTION B

Answer questions and any other two questions from this section.

6. Study the map of KITALE (Sheet 75/3, Scale 1:50 000) provided and answer the questions that follow (a) (i) Give the six figure grid reference for the Air Photo Principle point marked 95 found in the north – western part of the area covered by the map. (2 marks) (ii) Name two human made features found at grid square 4514. (2 marks) Name two other districts covered by the map apart from Trans Nzoia District. (b) (i) (2 marks) (ii), What was the magnetic declination at the time when the map was drawn? (2 marks) (c) (1)Calculate the area covered by Kapolet Forest reserve. Give your answer in square kilometres. (2 marks) (ii) Measure the distance of the all-weather road loose surface C 641 from the junction at grid square 2413 up to the junction at grid square 3121. Give your answer in kilometres. (2 marks) (iii) Calculate the gradient of the same road in (c) (ii) above (2 marks) (d) (i) Using a vertical scale of 1cm to represent 50 metres, draw a cross-section from grid reference 290140 to 355180. (4 marks) (ii) On the cross-section, mark and name: Dry Weather Road C 637 (1 mark)Wattle Plantation (1 mark) **River Koitobos** (1 mark) (e) Describe the drainage of the area covered by the map. (4 marks)



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(i) Name the features marked R , S and T	(3 marks)
$\mathbf{\hat{v}}^{\mathbf{\hat{o}}^{\mathbf{\hat{v}}}}$ (ii) Describe two distinctive characteristics of a fiord.	(2 marks)
(b) With the aid of a well labeled diagram, describe how the following features are formed	
(i) Cirque	(6 marks)
(ii) Hanging Valley	(4 marks)
(c) Explain two factors that may influence glacial erosion in uplands.	(4 marks)
(d) Your class intends to carry out a field study on glaciated lowland.	
(i) Name one type of moraine you are likely to identify during the study.	(1 mark)
(ii) Give two reasons why you would need the map of the area.	(2 marks)
(iii) State three importance of glacial features you are likely to identify.	(3 marks)



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(a) (i) Identify the hot deserts marked <b>A</b> , <b>B</b> and <b>D</b> .	(3 marks)
(ii) Explain two reasons why most hot deserts are found on the western margins of co	ntinents.

		(4 marks)
(b)	With the aid of well labeled diagram; explain how the following features are formed.	
	(i) Deflation hollows.	(4 marks)
	(ii) Barchans.	(6 marks)
(c)	State four ways in which arid regions can be used to benefit human.	(4 marks)
(d)	You are required to carry out a field study on water erosional features in arid areas.	
	(i) State <b>three</b> items you may be required to carry for the field study.	(3 marks)
	(ii) Why would a working schedule be important in the field study?	(2 marks)

9. The diagram below shows features resulting from underground water. Use it to answer the (a).



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	$\mathbf{e}^{\mathbf{e}}(\mathbf{a})$ (i) Name the features labeled <b>P</b> , <b>Q</b> and <b>R</b> .	(3 marks)
10	$\checkmark$ (ii) State <b>three</b> ideal conditions for the formation of the feature labeled <b>Q</b>	(3 marks)
\$0 ⁵	(b) Explain <b>three</b> factors that influence the existence of underground water.	(6 marks)
¥	(c) (i) What is "karst landscape?"	(1 mark)
	(ii) Describe three characteristics of karst landscape.	(3 marks)
	(d) Explain <b>two</b> ways in which a spring may be formed.	(4 marks)
	(e) (i) Name <b>three</b> surface features found in limestone areas.	(3 marks)
	(ii) State <b>two</b> problems that are likely to be experienced by the people living in area	as with karst
	landscapes.	(2marks)

(2 marks)

(6 marks)

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economy of Kenya.

Describe the processes shown by the diagrams E, F and G

- (e) Students from Maranda School intend to conduct a field study on volcanic features in the Rift Valley of Kenya.
  - Other than Ol Karia, name **two** other places they are likely to visit for the study. (2 marks) (i)
  - State **two** methods of data recording they are likely to use during the study. (2 marks) (ii)
  - (iii) What problems are they likely to encounter during the study?

Paper 1

(d) Explain two ways in which the geysers and hot springs at Ol Karia are of significance to the (4 marks)

(3 marks) (2 marks)

- (i) Name the features labeled **K**, **L** and **M**.
- (ii) Give two examples of the feature labeled N in East Africa
- (c) The diagrams below shows formation of a caldera through volcanic explosion. Study it and answer the questions that follow.





- 10. (a) (i) Differentiate between volcanicity and vulcanicity.
  - (ii) Name **two** types of volcanic eruptions.

(2 marks)

(2 marks)