

NAME..... INDEX NO.....CLASS.....
 ADM.....DATE.....SIGN.....
 312/1
GEOGRAPHY
PAPER 1
2 ¾ HOURS

POST MOCK TERM 3 2019
Kenya Certificate of Secondary Education (KCSE)

312/1
GEOGRAPHY
PAPER 1
2 ¾ HOURS

INSTRUCTIONS TO CANDIDATES:

- a. The paper has **two** sections: **A** and **B**.
- b. Answer all questions in section **A**.
- c. In section **B** answer **6** and any other two questions.
- d. All answers must be written in the foolscaps provided.
- e. Candidates should check the question paper to ensure that all the pages are printed as indicated and that no question(s) are missing.

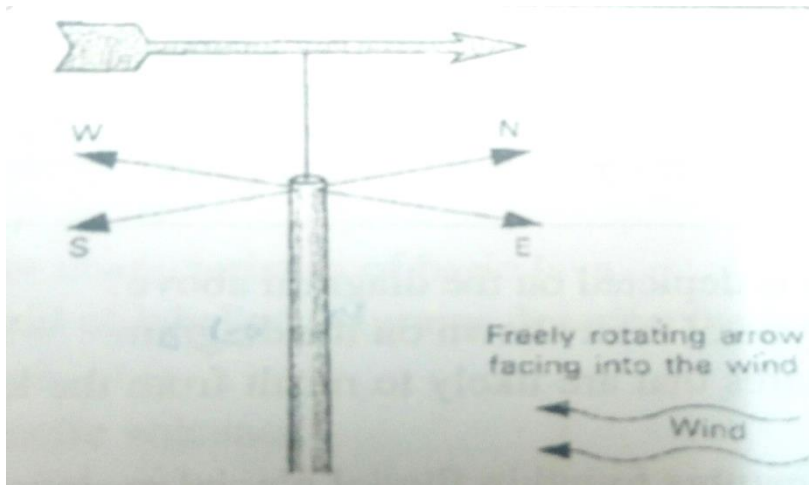
FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	

SECTION

A
Answer
all
questions
in this
section

1. a) What is geography? (2marks)
- (b) Name the **two** types of environment. (2marks)
2. Give **three** proofs that the earth is almost spherical in shape. (3marks)
3. Use the diagram below to answer questions (a) below.



- a.(i) Name the weather measuring instrument shown in the diagram. (2marks)
(ii) State the element of weather measured by the instrument named in a.(i) above. (2marks)
(iii) From the diagram, which direction is the wind blowing. (2marks)
- b. Differentiate between absolute humidity and relative humidity. (2marks)
4. The diagram below shows a coastal landform.



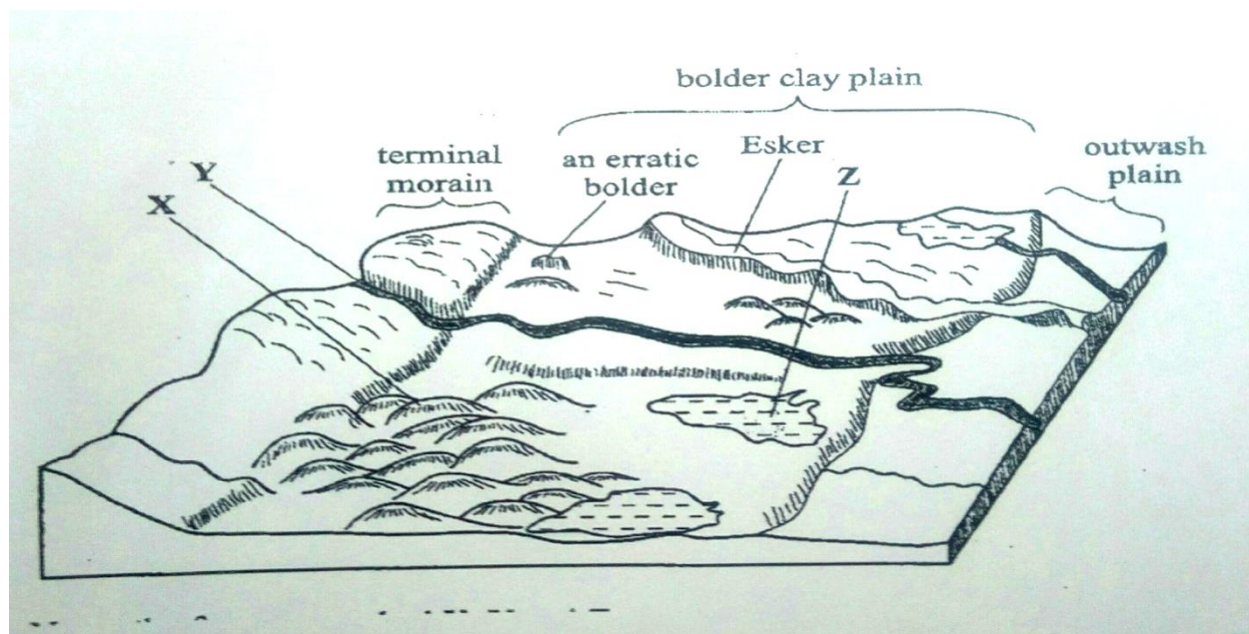
- (a) Name the features marked **P** and **K**. (2marks)
(b) List down **three** types of ocean tides. (3marks)
- 5 (a) Name the types of earth movements that occur within the earth's crust. (2marks)
(b) Describe the origin of continents according to the theory of continental drift. (3marks)

SECTION B

Answer question 6 and any other two from this section.

6. Study the map of **Taita Hills (1:50,000 (189/4))** provided and answer the questions that follow
- a (i) Identify the Province and the District shown on the map. (2marks)
(ii) Which **two** methods of showing relief have been used in the map? (3 marks)
- b. (i) Calculate the area covered by Ronge forest. (2marks)
(ii) Give **two** natural features found in the grid square 3419. (2marks)
(iii) Calculate the bearing of the church in grid square **3218** from the school in grid square **3522**. (2marks)
- c. (i) Using a vertical scale of **1cm** to represent **100Metres**, draw a cross section between Grid reference 300190 and grid reference 360190. (4marks)
(ii) On the cross section, mark and label the following features; (4 marks)
- A hill
 - A river
 - Thicket
 - Main track (motorable)

- (iii) Calculate the vertical exaggeration of the cross section. (2marks)
- (d) Citing evidence from the map, explain two factors influencing the distribution of settlement in the area covered by the map. (4 marks)
7. a. (i) Name **three** types of faults. (3marks)
- (ii) Apart from compressional forces, describe **two** other processes that may cause faulting. (4 marks)
- b. With the aid of diagrams, describe how compressional forces may have led to the formation of the Great Rift Valley. (8marks)
- c. Explain **five** effects of faulting on human activities. (10 marks)
- 8.a. (i) Define the term Aridity. (2marks)
- (ii) State **three** factors that makes wind an effective agent of erosion and deposition in the hot deserts. (3 marks)
- (b) Describe how a rock pedestal is formed. (5 marks)
- (c) Explain **four** significance of desert features to human activities. (8 marks)
- (d) A group of form **four** students went out for a field study on action of water in an arid area.
- (i) Give **three** methods of data collection they may have used. (3 marks)
- (ii) State **four** problems they have encountered during the field study. (4marks)
- 9 (a) Describe plucking as a process in glacial erosion. (4 marks)
- (b) Explain three conditions that lead to glacial deposition. (6 marks)
- (c) The diagram below shows features resulting from glacial deposition in a lowland area.



(i) Name the features marked X, Y, and Z.

- (ii) Describe how terminal moraine is formed. (4 Marks)
- (d) Explain **four** positive effects of glaciation in low land area. (8 marks)
10. a) What is soil catena? (2 marks)
- ii) Draw a well labeled diagram showing the structure of a well-developed soil profile. (5 marks)
- b) Differentiate between mineralization and humification in soil formation. (2 marks)
- c) State **three** factors that determine the color of soil. (3 marks)
- d) (i) State **four** factors that influence soil formation. (4 marks)
- (ii) Explain how the following farming practices can cause soil degradation:

- Burning. (2 marks)
 - Continuous application of fertilizer on farm land. (2 marks)
 - Monoculture. (2 marks)
- iii) State **three** uses of soil. (3 marks)