

NAME DATE

INDEX NO. CANDIDATE'S SIGNATURE

312/1
GEOGRAPHY
PAPER 1 (THEORY)
July/August, 2010
TIME: 2 ¾ HRS

MBOONI WEST DISTRICT JOINT EVALUATION TEST

Kenya Certificate of Secondary Education

312/1
GEOGRAPHY
PAPER 1 (THEORY)
TIME: 2 ¾ HRS

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided above.
2. This paper has **TWO** sections: A and B.
3. Answer **ALL** the questions in section A. In section B answer **QUESTION 6** and any other **TWO** questions from the section.
4. ALL answers **MUST** be written in the spaces provided.
5. Do not remove any pages from this booklet.

*This paper consists of 4 printed pages.
Candidates should check to ensure that all pages are printed as indicated and no questions are missing*

SECTION A**Answer ALL the questions in this section**

1. (a) Name two causes of earth movement (2 marks)
 (b) State three evidence that confirm the continental drift theory. (3 marks)
2. (a) Name two factors that influence wind erosion in arid areas. (2 marks)
 (b) Students of Wajir Secondary School carried out a field study on wind erosion near their school.
 Name any three features they identified. (3 marks)
3. Use the table below for Town X to answer the questions that follow.

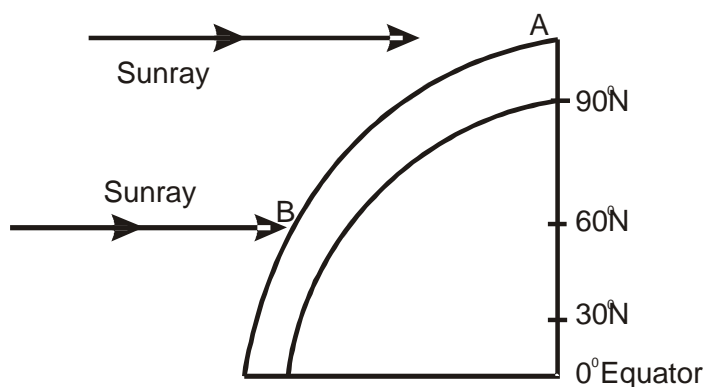
Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp $^{\circ}\text{C}$	21	20	20	17	15	13	12	13	15	16	18	20
Rainfall (mm)	12	12	15	50	90	110	87	87	50	35	20	15

- (a) (i) Calculate the mean annual temperature for town X (2 marks)
 (ii) What is the annual temperature range for town X (1 mark)
- (b) (i) Name a town in Africa where the figures in the above table may have been taken. (1 mark)
 (ii) Give one reason for your answer in (b) (i) above (1 mark)
4. (a) Name three factors that influence glacial erosion. (3 marks)
 (b) State two ways in which glacier erodes (2 marks)
5. (a) Differentiate between an ocean from a sea. (2 marks)
 (c) Name any three types of ocean tides (4 marks)

SECTION B.**Answer question 6 and any other two questions**

6. Use the map of Silaloni provided 1:50,000 (Kenya) to answer this question
- (a) (i) Identify the physical feature at grid reference 299940 (1 mark)
 (ii) Name two districts in the area covered by the map. (2 marks)
- (b) (i) What is the bearing and direction of the air photo principal point in grid square 5089 from the air photo principal point in the grid square 5498? (3 marks)
 (ii) Reduce the area enclosed by Eastings 30 and 40 and Northings 00 and 10 by a half.
 On the reduced area indicate
- The district boundary
 - The sub-location
 - Silaloni market (3 marks)
- (c) i. Describe the drainage of the area covered by the map (5 marks)
 ii. Students from Silaloni School went for field – work. Study in the area covered by the map to study population distribution. State three types of roads they were likely to use. (3 marks)
 iii. Why was it necessary to sample the area under study? (2 marks)
 iv. Identify three problems they were likely to face (3 marks)

7. (a) (i) Identify two fresh water lakes in the Rift Valley in Kenya. (2 marks)
 (ii) Explain why some lakes in the Rift Valley have fresh water (4 marks)
- (b) (i) Describe how Lake Victoria was formed. (4 marks)
 (ii) Explain three ways in which L. Victoria has modified the climate of the surrounding areas. (6 marks)
- (c) Explain how each of the following has affected lakes in Kenya. (3 marks)
 a. Deforestation
 b. Industrialisation
 c. Water weeds
8. The diagram below represents sun's rays reaching different parts of the earth. Use it to answer the questions that follow.



- (a) (i) State the reasons why region A experiences low temperatures than region B. (4 marks)
 (ii) Explain how latitude influences humidity (4 marks)
- (b) (i) What is dew point? (2 marks)
 (ii) Give the conditions which favour the formation of dew (4 marks)
 (iii) Mention two ways by which air is made to rise into the atmosphere (4 marks)
- (c) Outline the procedure followed when observing cloud cover at a weather station (6 marks.)
9. (a) Give five types of soil structures (5 marks)
 (b) (i) Differentiate between leaching and soil degeneration (2 marks)
 (ii) Explain three causes of soil degeneration (6 marks)
 (c) Identify factors contributing to the development of a soil catena. (4 marks)
 (d) Explain four methods used to check soil erosion (8 marks)

10. Below is a map of Africa representing vegetation zones. Use it to answer the questions that follow.



- a. (i) Identify the labelled vegetation types. (3 marks)
 (ii) State how the vegetation type marked R has adapted to the climatic conditions (5 marks)
- b. Explain how altitude influences the distribution of vegetation (8 marks)
- c. Your class is required to carry out a field study of vegetation in the neighbouring mountain.
- i) What preparations would you make for this study?
 ii) State the problems you encountered in the field study.
 iii) How would you record your findings? (2 marks)